

Schlegel

SEALING SYSTEMS

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A GUIDE TO:

WEATHERSEAL SELECTION, SPECIFICATION & STANDARD

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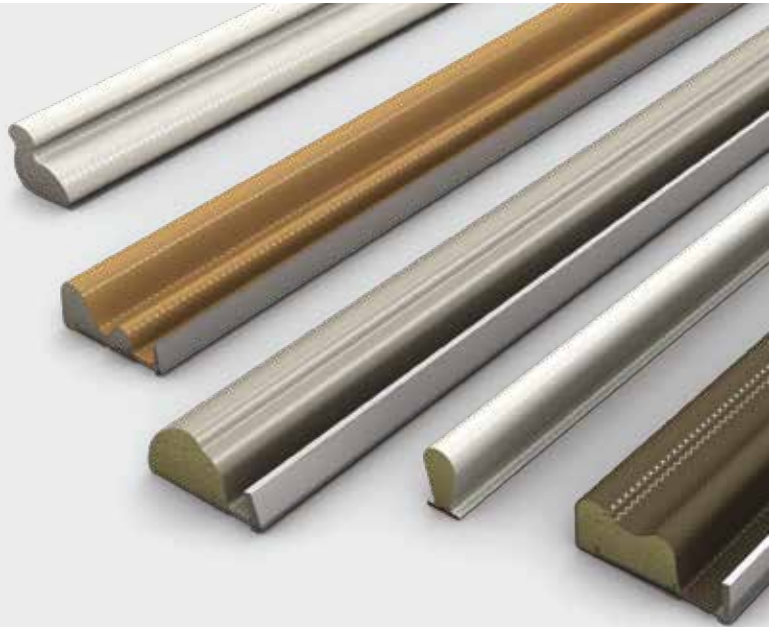
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AN INTRODUCTION: TO EN 12365 2003



EN 12365 2003 is the European standard that details the performance requirements of gaskets and weatherstripping in doors, windows, shutters and curtain walling. These gaskets or weatherstripping are to control the movement of air, water, sound and energy between the fixed and opening parts of the described products.

The standard includes all gasket and weatherstripping materials but does not apply to mastics, sealants, putties or other liquids, viscous or other materials extruded into their final place.

The performance of gaskets and weatherstrips are critically important to the overall performance levels of the installed window or door.

In many ways...

... THE WINDOW OR DOOR IS ONLY AS
GOOD AS THE WEATHERSTRIPPING
EMPLOYED...

...and therefore its classification to EN 12365 2003 should always be a factor in product selection.

The standard is split into four parts:

Part 1 – Performance requirements and classification

Part 2 – Linear compression force test method

Part 3 – Deflection recovery test method

Part 4 – Recovery after accelerated ageing test method

The most recent version of EN 12365 before the preparation of this guide was in 2003.

The standard is due for re-examination and, if required, revision. Please check to ensure that you refer to the latest revision.

ENABLING A WINDOW OR DOOR TO MEET CE MARKING 2016

The Construction Products Regulation came into force on the 1st July 2013, and requires that manufacturers, who place construction products covered by a harmonised European Standard, on the market within the European Economic Area (EEA), apply a CE mark and produce a Declaration of Performance (DOP) for their products.

CE marking is not applied to windows and doors in all applications in all countries across Europe but still provides consumers with the confidence in the performance of the products they purchase. In order to CE mark a window or a door, the manufacturer is reliant on their component suppliers to provide declarations of performance to support their claims.

As already mentioned, the weatherstrips and gaskets are critically important in the performance of the installed window and therefore door and window manufacturers must choose components from suppliers capable of demonstrating and certifying that the required standards are met or even succeeded.

All external windows and doors across Europe must meet the performance requirements of EN 14351-1 2016. A suitable gasket and / or weatherstrip is an essential component in meeting these performance requirements.

The standard requires that all those selling complete window, door, shutter and curtain walling assemblies make certain declarations on the performance of their products. In most countries this is done in the form of a CE (Conformité Européenne) mark. This relates to weatherstrips and gaskets in two main ways:

- That the materials they are made from are not hazardous in terms of the emission and / or migration of dangerous substances as required by EN 14351-1 2016 clause 4.6.
- That the seal meets the performance requirements

under EN 12365-1 2003 as required by EN 14351-1 2016 clause 4.15.

The ultimate method of demonstrating performance compliance is to practically test each window and door in all relevant configurations with the specified components. This may not be practical in all cases but EN 12365 2003 provides a method by which the relative performance of different weatherstrips and gaskets may be assessed and compared.

Window and door manufacturers should also note that...

... A FURTHER REQUIREMENT OF CLAUSE 4.15 IS THAT WEATHERSTRIPS OR GASKETS SHOULD BE REPLACEABLE...

...to ensure the long term serviceability of the door or window. Compliance can normally be demonstrated by ensuring that the seal is located in a pocket or kerf slot in the profile and can therefore be removed and replaced.

SCHLEGEL PRODUCTS

To help establish compliance with EN 14351-1 2016, your seal manufacturer needs to make some compliance declarations. Here are the ones for Schlegel products.

COMPLIANCE WITH CLAUSE 4.6: DANGEROUS SUBSTANCES

In accordance with the requirements of Annex I of regulation No. 305/2011 of the European Parliament and clause 4.6 (Dangerous Substances) of BS EN 14351-1 2016 + A1: 2010, we confirm that there are no materials liable to emission or migration during the normal intended use of products supplied by SchlegelGiesse, that are potentially dangerous to hygiene, health or the environment.



CE

COMPLIANCE WITH CLAUSE 4.15: DURABILITY

In accordance with clause 4.15, the long term water tightness and air permeability characteristics of an external door, window or roof light are dependent upon the weatherseals. This clause requires that weather seals comply with the relevant European Standard, in this instance, EN 12365-1 2003 (Building hardware. Gasket and weather stripping for doors, windows, shutters and curtain walling. Performance requirements and classification).



THE CLASSIFICATIONS OF WEATHERSEALS TO EN 12365 2003

Under EN 12365 2003 there is a prescribed classification system that enables window, door, shutter and curtain walling manufacturers or installers to ensure that they are using the component that best meets their requirements.

It is important that evidence is provided and the classification of each seal demonstrated.

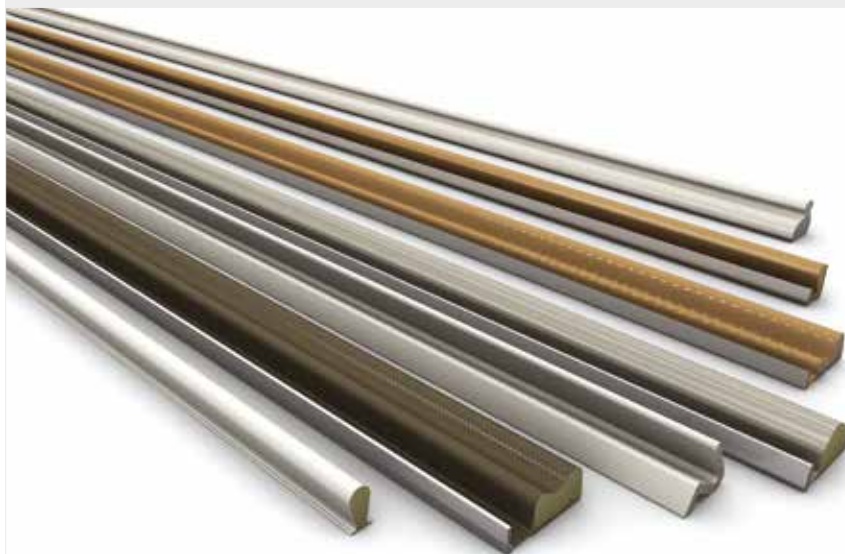
A SIX DIGIT SYSTEM IS USED:

1	2	3	4	5	6
Category of Use	Working Range	Linear Compression Force	Working Temperature Range	Deflection Recovery	Recovery After Ageing
W = Weatherstrip G = Gasket	9 grades showing the working range of the seal with 9 being the greatest distance	9 grades showing the linear compression force with 9 being the greatest force	6 grades showing the working temperature range each with different high and low temperatures	8 grades showing deflection recovery with grade 0 indicating no requirement and grade 7 showing the greatest recovery	8 grades showing recovery after ageing with grade 0 indicating no requirement and grade 7 showing the greatest recovery
	Grades 1: ≤ 1mm 2: >1mm ≤ 2mm 3: >2mm ≤ 4mm 4: >4mm ≤ 6mm 5: >6mm ≤ 8mm 6: >8mm ≤ 10mm 7: >10mm ≤ 15mm 8: >15mm ≤ 30mm 9: >30mm	Grades 1: ≤ 10 N/m 2: >10 N/m ≤ 20 N/m 3: >20 N/m ≤ 50 N/m 4: >50 N/m ≤ 100 N/m 5: >100 N/m ≤ 200 N/m 6: >200 N/m ≤ 500 N/m 7: >500 N/m ≤ 700 N/m 8: >700 N/m ≤ 1000 N/m 9: >1000 N/m	Grades 1: 0°C to +45°C 2: -10°C to +55°C 3: -20°C to +85°C 4: -25°C to +100°C 5: -40°C to +70°C 6: 0°C to +200°C	Grades 0: No Requirement 1: >30% to 40% 2: >40% to 50% 3: >50% to 60% 4: >60% to 70% 5: >70% to 80% 6: >80% to 90% 7: >90%	Grades 0: No Requirement 1: >30% to 40% 2: >40% to 50% 3: >50% to 60% 4: >60% to 70% 5: >70% to 80% 6: >80% to 90% 7: >90%

When assessing the performance requirement, the greater the grade does not always show the best level of performance. So, when comparing categorisations higher scores are usually better but careful analysis is required to ensure that the needs of the particular application are met.

A TYPICAL CLASSIFICATION THEREFORE TAKES THE FORM OF:

W	5	3	6	4	5
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PRODUCT PERFORMANCE TABLES

The methodology for the linear compression test, the deflection recovery test and the recovery after ageing test are all described in EN 12365 2003 parts 2, 3 and 4. All

testing should be carried out by an accredited test facility. The testing facilities at SchlegelGiesse in Hamburg are accredited by ift Rosenheim.

Q-LON CLASSIFICATION TO EN 12365 2003

QL 1026	W	2	6	2	7	6
QL 1032	W	3	5	2	7	6
QL 3004	W	2	6	2	7	6
QL 3005 / AQ 63	W	3	5	2	6	6
QL 3006	W	6	2	2	7	6
QL 3009	W	3	2	2	6	6
QL 3011	W	3	5	2	7	6
QL 3012	W	4	5	2	7	6
QL 3015 / AQ 122	W	2	5	2	7	6
QL 3013 / AQ 48	W	1	5	2	7	6
QL 3020	W	4	4	2	6	6
QL 3021	W	3	5	5	6	5
QL 3025	W	2	5	2	6	6
QL 3034	W	3	6	2	7	6
QL 3037 / AQ 4846	W	3	5	2	6	6
QL 3042	W	2	4	2	7	6
QL 3053	W	3	5	2	6	6
QL 3054	W	3	5	2	7	6
QL 3056	W	3	4	2	7	5
QL 3059	W	3	3	2	6	5
QL 3061	W	3	3	2	6	6
QL 3063	W	3	6	2	6	6
QL 3067	W	3	5	2	7	6
QL 3068	W	3	5	2	7	5
QL 3070	W	2	5	2	6	6
QL 3072	W	2	4	2	6	5
QL 3073	W	4	4	2	7	5
QL 3074	W	2	6	2	7	6
QL 3076	W	3	4	2	6	6
QL 3078	W	3	3	2	6	6
QL 3079	W	2	4	2	6	6
QL 3082	W	3	5	2	7	5
QL 3091	W	4	4	2	6	5
QL 3093	W	4	4	2	6	6
QL 3094	W	3	2	2	6	5
QL 3095	W	3	2	2	7	5
QL 3096	W	3	3	2	6	5
QL 3097	W	3	5	2	6	6
QL 3098	W	3	3	2	6	6
QL 3099	W	3	3	2	6	6
QL 3101	W	3	5	2	7	6
QL 3102	W	3	3	2	6	6
QL 3103	W	3	5	2	6	6
QL 3104	W	4	4	2	7	5
QL 3106	W	2	5	2	7	6
QL 3109	W	4	3	2	7	6
QL 3110	W	2	5	2	6	6

QL 3111	W	3	5	2	5	6
QL 3113	W	3	5	2	6	6
QL 3116	W	3	4	2	6	6
QL 3117	W	2	3	2	6	6
QL 3118	W	3	1	2	7	6
QL 3121	W	3	2	2	6	6
QL 3122	W	1	7	2	7	6
QL 3124	W	1	6	2	7	6
QL 3126	W	1	7	2	7	6
QL 3128	W	3	2	2	6	5
QL 3130	W	3	4	2	6	6
QL 3130	W	2	4	2	6	6
QL 3131	W	2	5	2	6	6
QL 3138	W	2	5	2	7	6
QL 3139	W	3	1	2	7	6
QL 3140	W	3	5	2	6	6
QL 3141	W	3	5	2	5	5
QL 3141	W	2	4	2	5	5
QL 3143	W	2	6	2	7	5
QL 3147	W	3	4	2	6	6
QL 3150	W	3	3	2	6	6
QL 3151	W	3	3	2	6	6
QL 3152	W	3	3	2	6	6
QL 4465	W	2	5	2	6	6
QL 45	W	2	7	2	7	6
QL 48400	W	1	6	2	6	6
QL 48447	W	3	3	2	6	6
QL 48510	W	1	5	2	5	6
QL 48650	W	2	5	2	5	6
QL 4870	W	2	3	2	6	6
QL 48700	W	3	3	2	7	6
QL 48750	W	2	5	2	6	6
QL 48800	W	3	4	2	7	6
QL 48950	W	3	4	2	6	6
QL 50	W	2	5	2	7	6
QL 5271	W	2	5	2	6	6
QL 55	W	2	5	2	6	6
QL 5570	W	2	4	2	6	6
QL 5626	W	3	3	2	5	6
QL 5694	W	4	3	2	6	6
QL 57700	W	2	5	2	6	6
QL 5878	W	2	5	2	4	6
QL 5985	W	2	4	2	7	6
QL 60	W	3	5	2	7	6
QL 6571	W	3	5	2	6	6
QL 6750	W	3	4	2	6	6
QL 69400	W	1	5	2	5	6

QL 69447	W	3	3	2	6	6
QL 69510	W	1	5	2	4	6
QL 69650	W	1	5	2	6	6
QL 69700	W	3	3	2	7	6
QL 69750	W	2	4	2	6	6
QL 69800	W	3	4	2	6	6
QL 6991	W	2	5	2	6	6
QL 69950	W	3	4	2	6	6
QL 7000	W	5	2	2	6	6
QL 7032	W	3	4	2	6	6
QL 7066	W	3	3	2	6	6
QL 7307	W	3	5	2	7	6
QL 836	W	3	3	2	6	6
QL 9005	W	2	4	2	6	6
QL 9100	W	3	5	2	7	6
QL 9111	W	3	4	2	6	6
QL 9112	W	3	5	2	7	6
QL 9154	W	3	5	2	6	6
QL 9257	W	3	3	2	7	6
QL 9489	W	2	6	2	7	6
QL 9536	W	4	3	2	7	6
QL 9596	W	2	6	2	7	6
QL 9646	W	3	5	2	7	6
QL 9608	W	3	3	2	7	6
QL 9613	W	3	3	2	7	6
QL 9688	W	3	3	2	7	6
QL 9710	W	3	5	2	6	6
QL 9756	W	2	5	2	7	6
QL 9898	W	3	5	2	7	6
QL 9926	W	3	3	2	7	6
QL 9928	W	3	4	2	7	6
QL 9985	W	3	5	2	7	6

TPE CLASSIFICATION TO EN 12365 2003

DX1383 (LT1383)	W	2	4	5	5	4
DX1432 (LT1432)	W	3	4	2	4	3
DX1452 (LT1452)	W	2	3	2	3	2



THE SCHLEGEL PRODUCT RANGE

MATERIALS, TECHNOLOGIES AND DESIGNS

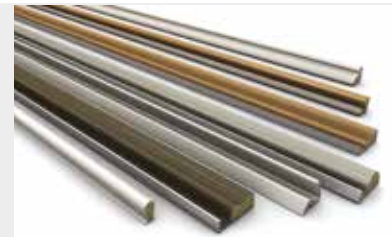
In order to cover all normal applications for windows, doors, shutters and curtain walling, Schlegel offer the widest range of gasket and weatherstripping materials and technologies available.

There are products within the Schlegel range designed to perform as sliding seals, compression seals and gaskets for framing materials including aluminium, timber, PVC, steel and other composites.

The principle Schlegel product ranges and technologies are:

Q-LON POLYURETHANE FOAM WEATHERSEALS

A combination of polyurethane, polypropylene (or polycarbonate) insert and polyethylene liner makes Q-Lon one of the best weatherseals in the World. Suitable for timber, PVC and aluminium windows and doors in compression and sliding applications. Foam seals are growing in popularity with their enhanced thermal and acoustic properties and their ability to maintain performance levels throughout a long service life.



FOAM-TITE TPV FOAM WEATHERSEALS

As an extruded foam seal, with an effectively closed cell structure, Foam-Tite offers a wide range of flexible configurations for the profile designer. Primarily for PVC and aluminium framed products, bulb, hollow and leaf shaped seals are all possible. Again, the foam nature of the seals means enhanced performance over a longer service life.



BRUSH PILE POLYPROPYLENE SEALS

Primarily for sliding applications, pile weatherseals are produced in a number of formats to suit varying performance and application requirements.



TPE AND FOAMED TPE EXTRUDED SEALS

Extruded weatherseals designed to meet specific needs for timber, PVC and aluminium framed windows and doors. Products can include variable hardness and foam TPE elements to deliver superior performance.



SOFT PVC EXTRUDED SEALS

Extruded profile to meet different kind of application. Products can include variable hardness elements to deliver superior performance.



SELECTING A SEAL MATERIAL AND DESIGN

The selection of a suitable seal product is dependent in the performance characteristics required for the door, window, rooflight, shutter or curtain walling in the application for which it has been designed.

A great deal of guidance can be gained from the classification under EN 12365-1 2003, which should always be checked. For thermal conductivity of the seal as an element of the overall construction of the window or door, reference can be made to table 1 of EN 12524 2000 or, as previously stated, by direct calculation.

These considerations will in turn influence the selection of material and manufacturer.

SCHLEGEL CAN OFFER ALL PRODUCT DESIGN, MANUFACTURING AND INSTALLATION TEAMS SUPPORT IN THE SPECIFICATION AND SUPPLY OF A SEAL...

...to meet their specific application requirements, and to support compliance with the required product standards.

QUALITY PRODUCTS

Schlegelgiesse has an unrivalled reputation for high quality, service and technical innovation, establishing it as a World leader in the manufacture of seals, weatherstrips, gaskets and extrusions.

All our products are manufactured to meet the requirements of current and proposed British, European and International Standards and are manufactured using a Quality Management System registered and certified to BS EN ISO 9001:2015 Quality Systems.

European standards require each windows and doors to be tested in all its components with a view to constant functional quality regardless of the type of product and the

profile on which this is applied.

Each component is subjected to internal testing to verify its actual performance level or directly certified by institutes authorised to the highest levels required by the regulations (i.e. IFT Z-CERT QM338). The auditors of these Institutes perform a periodic review of the effectiveness of the production plant control in order to ensure continual quality improvement.

All the raw materials (polypropilene, TPE, PVC, polyurethane, etc) recives chemical composition controls that guarantee constant performance as requested by the reference standards.



THERMAL CONDUCTIVITY

TO EN ISO 10077-1 2006 AND EN 12524 2012

THERMAL CONDUCTIVITY

Section 4.12 of EN 14351-1 2006 stipulates the methods for determining thermal transmittance of windows and doors that can be used for CE Declarations of Performance. Common window configurations can use standard tables within EN 10077-1 2006 for declared thermal performance values, though more accurate values can be obtained by individual calculation or hot box testing. In accordance with 4.12 of EN 14351-1, calculations used for declaring thermal transmittance should be conducted in accordance with the methodology stipulated in EN ISO 10077-1 2006 and EN ISO 10077-2 2012.

EN ISO 10077-2 2012 details the process for the calculation of frame element of windows, and doors, including weather seals and gaskets. For thermal calculations, it is necessary to understand the linear thermal transmittance, or thermal conductivity, of the individual frame component materials. Section 5.1 of EN ISO 10077-2 2012 refers to a further standard, EN ISO 10456 2007, as a suitable source of tabulated performance values, for a variety of building materials.

Which seal has the lowest conductivity?

Within table 3 of EN ISO 10456 2007, polyurethane foam weather seals are detailed, with a linear thermal transmittance of 0.05 W/(m.K). This should be the value used for Q-Lon seals within window and doorset specifications, when calculating thermal performance declarations in compliance with the requirements of EN 14351-1 2006.

The material performance...

...VALUES WITHIN TABLE 1 OF EN ISO 10456 2007 ALSO HIGHLIGHT THE SUPERIOR THERMAL PERFORMANCE OF Q-LON...

There is a proverb that says: A chain is only as strong as its weakest link. This also applies to the fenestration industry. Doors and windows only perform as well as the seal.

The thermal performance that can be achieved by a window or door is determined by many different factors. The composition of the frame material and the glass are both very important. A low quality seal, however, can easily spoil the energy saving effects of insulated profiles and argon filled HR glass.

Under EN ISO 10456:2007, the design thermal conductivity of different materials used for seals is detailed thus:

- EPDM 0.25 W/(m·K)
- PVC 0.14 W/(m·K)
- PU 0.05 W/(m·K)

In accordance with EN12667 (Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods), it now has been independently tested and certified by ift Rosenheim: Q-Lon has a measured low thermal conductivity of **just 0.041 W/(m·K)**. This is better than any other weather seal available in the market.

Compared to other seals, the loss of energy is reduced to the minimum. In combination with an excellent high compression recovery (on average higher than 90%) a high performance is also guaranteed over the long term.

Evidence of Performance

Thermal conductivity (declared value)

Test Report
No. 15-003940-PR01
(PB-K03-06-en-02)

Client
SCHLEGEL GERMANY GMBH
Bredowstr. 33
22113 Hamburg
Germany

Product
Flexible polyurethane foam boards
"Q - Lon Platten"

Designation
Thermal conductivity
product details
Flexible polyurethane foam based on polyol, both sides with polyethylene facing / 95 µm, facing argon / water / carbon dioxide, density approx. 125 to 136, closed pore structure, open pores, application: seals for windows, doors
Conditioning
After delivery, the test specimens were conditioned at 23°C / 50 % relative humidity until achieving constant mass (0.1 % / 24 h)
Special features
The test specimens were characterised by unevenness resulting from the manufacturing process.

Results
Thermal conductivity (declared value)

$\lambda_D = 0.041 \text{ W/(m} \cdot \text{K)}$ *

* The thermal conductivity was determined at an average temperature of 10°C.



Basis 1
EN 12667:2001-01
EN ISO 10456:2006-12

Test report 15-003940-PR01
(PB-K03-06-en-03) dated
27.07.2016



Representations

Instructions for use

The test report serves to demonstrate the thermal conductivity (declared value) λ_D .

Validity

The data and results given refer solely to the tested and described specimen. This test evaluation does not allow any statement to be made on any further characteristics regarding performance and quality of the

OTHER RELEVANT STANDARDS

There are a number of other European Standards that cover more general requirements of windows and doors as a whole in specific areas of performance. These should be referred to separately.

EN 12207 2000 – Air Permeability
EN 12208 2000 – Water Tightness
EN 12567 2000 – Thermal Conductivity
EN 13115 2001 – Operating Forces
EN ISO 10140-2 – Acoustic Performance

GLOSSARY OF TERMS (RELATING TO EN 12365 2003)

Deflection Recovery – the ability of the gasket or weatherstripping to recover its free height after compression or deflection.

Free Height – height of the gasket or weatherstripping at zero load.

Gasket – packing material firmly held between contact surfaces on two components whose joint is to be sealed.

Linear Compression Force – force needed to deflect a specimen to its maximum working range, at a temperature of $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

Maximum Working Temperature – condition below which the gasket or weatherstripping is considered to be capable of performing.

Minimum Width – the minimum width of a gasket is the sum of the gaps between the infilling and the frame or bead, each side. The minimum width of weatherstripping is the distance between a point relating to the mounting surface and a point of the contact surface.

Product – building product such as a door or a window.

Sample – complete batch of test material (profile), as supplied by the manufacturer, and from which the test pieces shall be cut.

Specimen – one or more test pieces mounted ready to be placed in the test apparatus, so as to be tested as one unit.

Test Pieces – Lengths of material cut at random from various places within the sample to provide test specimens.

User – person who is supplied with the gaskets or weatherstripping for use in the product.

Weatherstripping – strip, often of flexible material, attached to a door, window or shutter, to cover the space between the edge or bottom of the door, window or shutter and the frame or threshold.

Working Range – distance through which a gasket or weatherstripping can be compressed or deflected when used in any particular product.



BRUSH PILE SEALS AND SEALING PROFILES:

FOR ALUMINIUM, PVC AND TIMBER APPLICATIONS

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BRUSH PILE SEALS: EFFECTIVE FLEXIBLE SEALING

SchlegelGiesse are known for providing high quality GIESSE and ERA hardware and SCHLEGEL sealing products for all types of windows and doors on the residential, commercial and industrial fronts. We have a long history of manufacturing an extensive range of woven brush pile seals and extruded sealing profiles with brush pile for application in the fenestration industry, window covering business, interior design and other areas. Pile fibres move independently and are flexible, they seal perfectly against moving elements and also uneven surfaces.

Early in the previous century, pile weather strips were developed for use in revolving doors. The first types were made from wool with a cotton backing (so-called wool pile). In recent years, demands regarding draught proofing and durability in the building industry have increased, and the products developed accordingly.

All Schlegel brush pile seals are now made from polypropylene (PP) and come with numerous options:

- Available in many different widths and heights
- Reinforced woven backing, extruded base for optimal ease of insertion or carrier profile
- With optional adhesive backing based on hot-melt (HM) glue technology
- PP yarn treated with silicone to resist water, mould

and mildew

- Different densities depending on seal type, width and mounting distance
- Standard soft multifilament yarn in many different colours
- Untreated monofilament yarn for increased stiffness
- Heat set for recovery after compression
- UV stable and chemically inert
- Excellent resistance to abrasion and static build-up and low friction for improved sliding performance
- Optional central or lateral fins for additional draught proofing

Our products are manufactured to meet the requirements of our many international customers in different industries. We use a Quality Management System registered and certified to norm ISO 9001:2015 and an Environmental Management System to ISO 14001:2015.

We invite you to browse through our range in this brochure or on our website, where you can use our product filter to find the right draught excluder for you. Please contact us for any further information or specific requirements.

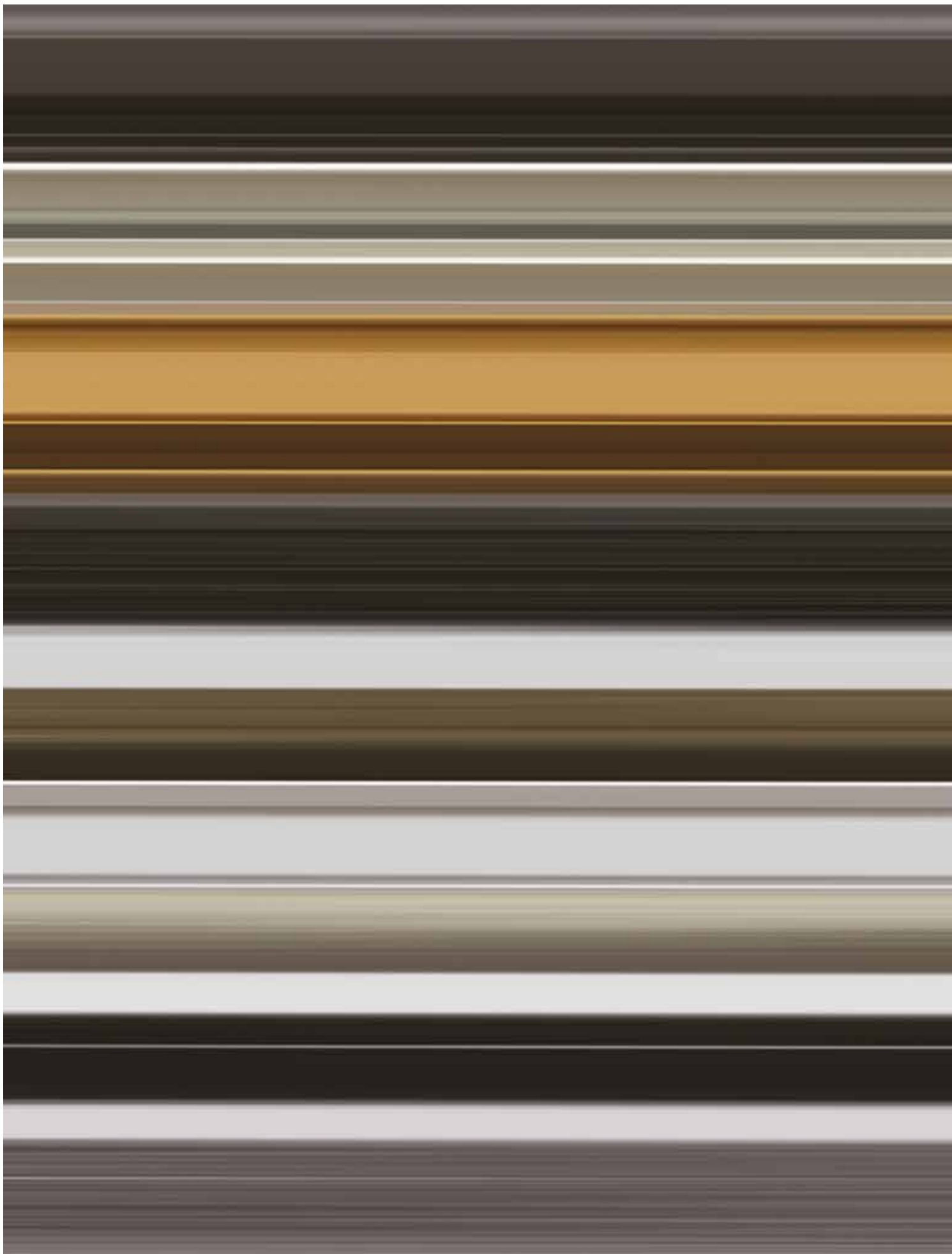
Tested and certified by:

bsi. 



Trilobal PP-yarn

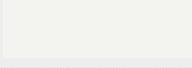




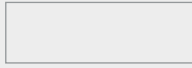
BRUSH PILE SEALS AND SEALING PROFILES: COLOUR RANGE

SCHLEGEL BRUSH PILE SEALS ARE MADE FROM VIRGIN POLYPROPYLENE (PP) YARN.

Brown, white and black (multifilament only) are the main standard colours:

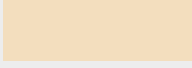
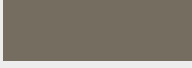
≈ RAL	Codice	Colore
1011	241	 Beige
1032	292	 Dark Gold
7045	277	 Grey
8025	291	 Pale Brown
8028	264	 Brown
9003	222	 White
9005	223	 Black

Grey, black and natural (monofilament only) are the main standard colours:

≈ RAL	Codice	Colore
7045	277	 Grey
9005	223	 Black
-	TRL	 Natural

This colours as listed below are subject to availability and can be offered upon request. Depending on the configuration, special conditions for minimum order quantities, lead time, packaging and price may apply.

Multifilament pile and yarn colours for NON standard colours:

≈ RAL	Codice	Colore
1015	266	 Ivory
7011	240	 Iron Grey
8008	244	 Dark Beige
8014	281	 Sepia Brown



BRUSH PILE SELECTOR



Poly-Bond brush pile in aluminium sliding window

	Product Application Area				Product Dimensions			
	Sliding Window	Sliding Door	Window Covering	Furniture	Base Width		Brush Height	
					Min	Max	Min	Max
WOVEN BASED								
Poly-Bond	x	x	x	x	4,8 / 6,7 / 6,9		3,0	15,0
Fin-Seal	x	x	x	—	4,8 / 6,7 / 6,9		3,0	15,0
EXTRUDED BASE								
Power-Pile	x	x	x	x	4,8 / 6,7 / 6,9		5,0	20,0
Fin-Pile	x	x	x	—	4,8 / 6,7 / 6,9		5,0	20,0
G3	x	x	x	—	4,8 / 6,7 / 6,9		4,0	20,0
G3-QF Quadrafin	x	x	x	—	4,8 / 6,7 / 6,9		5,0	15,0
Bi-Fin	x	x	x	—	4,8 / 6,7 / 6,9		6,0	20,0
SPECIALS								
Angle-Pile	—	—	x	—	4,8 / 6,9		9,0	22,0
Dust-Plug	x	x	—	x	10,0	60,0	3,0	22,0
Shutter-Pile	—	—	x	—	4,8 / 6,7 / 6,9		3,0	15,0
Skirting Fringe	x	x	x	—	2,7 / 2,9 / 3,1 / 3,3		5,0	30,0
	x	x	x	—	2,7 / 2,9 / 3,1 / 3,3		5,0	30,0
Flex-Brush	x	x	—	—	3,5	5	10,0	50,0
Kerf-Pile	x	x	—	—	Groove width: 3		5,0	25,0



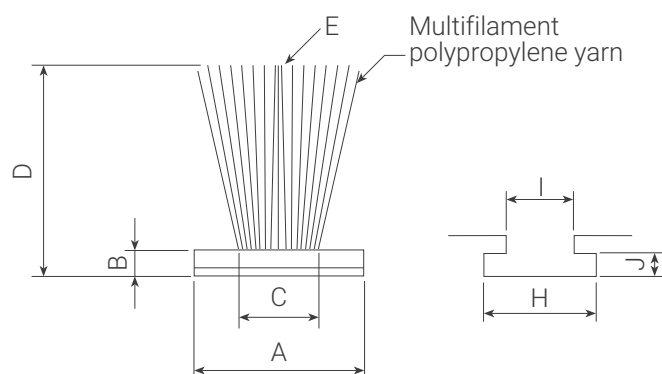
Brush Pile and Backing Characteristics and Options

Angle	Filament Type	Density	Hotmelt Adh. Back	Fin Position	Fin Height	Optimised for Auto Insertion	Page
90°	Multi	4P	Optional	–	–	–	20
90°	Multi	4P	Optional	Centre	0 / 1	–	21
90°	Multi	4P	–	–	–	x	22
90°	Multi	4P	–	Centre	0	x	23
90°	Multi	4P	–	Centre	0 / 1	x	24
90°	Multi	4P	–	Centr./Later.		x	25
90°	Multi	4P	–	Lateral	0	x	26
45° / 60°	Mono	24	–	–	–	x	27
90°	Multi / Mix	8P – 76P	Optional	Optional	Optional	–	28
90°	Mono and Multi	2P / 3P	Optional	–	–	–	29
90°	Mono	24	–	–	–	x	30
90°	Multi	4P	–	–	–	x	30
90°	Mono	HD15	–	–	–	–	31
90°	Multi	5P	–	–	–	x	32

For more details and options see the rest of this catalogue, consult www.schlegelgiesse.com.



POLY-BOND (PB): WOVEN BRUSH PILE SEALS



Soft silicone treated multifilament pile yarn on a woven reinforced translucent backing for all common economy sealing applications. Optional adhesive backing.

Recommended compression:

- Brush pile height from 3.0 to 5.0 mm: 5% to 10%
- Brush pile height from 5.5 to 6.5 mm: 10% to 20%
- Brush pile height from 7.0 and above: 15% to 25%

	4,8	6,7	6,9
H	5,3	7,5	7,7
I	3,2	3,2	3,2
J	1,3	1,3	1,3

Minimum clearance recommended: +0.5 mm of backing width chosen

TECHNICAL SPECIFICATION

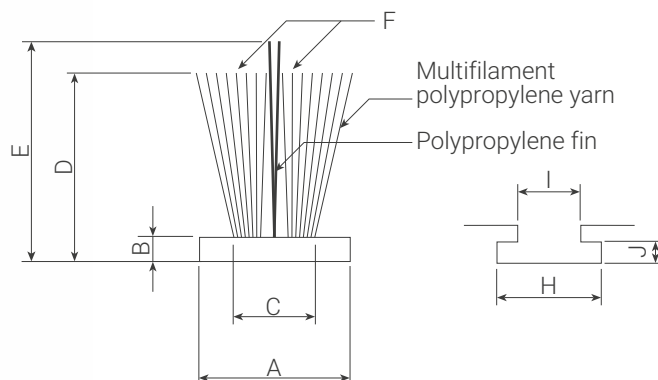
STANDARD SOLUTIONS				
A Backing width*	B Backing thickness	C Pile base width	D Brush height	E Brush density (P)
4,8 +0,10/-0,15 mm 6,7 +0,10/-0,20 mm 6,9 +0,10/-0,20 mm	0,8 ± 0,15 mm	2,4 ± 0,3 mm	3,0 ≤ D ≤ 6,5 mm (+0,25/-0,15 mm) with 0,50 mm intervals 6,5 < D ≤ 10,0 mm (+4%/-2,5%) with 0,50 mm intervals 10,0 < D ≤ 15,0 mm (+4%/-2,5%) with 1,0 mm intervals	4P

Multifilament pile yarn colours (≈ RAL)

1011	1032	7045	8025	8028	9003	9005
Beige	Dark gold	Grey	Pale brown	Brown	White	Black

*With optional hot-melt adhesive (HM) • Note: total height will increase up to 0,5 mm if hot-melt requested

FIN-SEAL (FS): WOVEN BRUSH PILE SEALS



Soft silicone treated multifilament pile yarn on a woven reinforced translucent backing. With welded clear centre fin for improved weather sealing of sliding windows and doors. Optional adhesive backing.

Recommended compression:

- Brush pile height from 3.0 to 5.0 mm: 5% to 10%.
Fin should be plus 1 mm
- Brush pile height from 5.5 to 6.5 mm: 10% to 20%.
Fin either level or plus 1 mm
- Brush pile height from 7.0 mm to 11 mm: 15% to 25%.
Fin either level or plus 1 mm
- Brush pile height from 12.0 and above: 15% to 25%.
Level Fin only

	4,8	6,7	6,9
H	5,3	7,5	7,7
I	3,2	3,2	3,2
J	1,3	1,3	1,3

Minimum clearance recommended: +0.5 mm of backing width chosen

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS

A Backing width*	B Backing thickness	C Pile base width	D Brush height	E Fin height**	F Brush density (P)
4,8 +0,10/-0,15 mm 6,7 +0,10/-0,20 mm 6,9 +0,10/-0,20 mm	0,8 ± 0,15 mm	2,4 ± 0,3 mm	3 ≤ D ≤ 5 mm (+0,25/-0,15 mm with 0,50 mm intervals) 5,5 ≤ D ≤ 6,5 mm (+0,25/-0,15 mm with 0,50 mm intervals) 6,5 ≤ D ≤ 10 mm (+4%/-2,5% with 0,50 mm intervals) 10 ≤ D ≤ 12 mm (+4%/-2,5% with 1 mm intervals) 12 ≤ D ≤ 15 mm (+4%/-2,5% with 1 mm intervals)	D+1 mm (+0,25/-0,15 mm with 0,50 mm intervals) Level or D+1 mm (+0,25/-0,15 mm with 0,50 mm intervals) Level or D+1 mm (+4%/-2,5% with 1 mm intervals) Level only (+0,50/-0,50 mm)	4P

Multifilament pile yarn colours (≈ RAL)

1011	1032	7045	8025	8028	9003	9005
Beige	Dark gold	Grey	Pale brown	Brown	White	Black

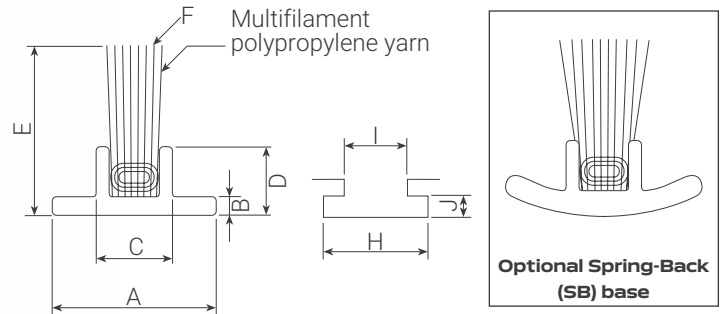
*With optional hot-melt adhesive (HM) • Note: total height will increase up to 0,5 mm if hot-melt requested

**With optional quiet black non-woven (NW) fin



POWER-PILE (PW):

EXTRUDED BRUSH PILE SEALS



Soft silicone treated multifilament pile yarn on an extruded base with upstanding directors. Guaranteed on centre pile, more suitable for machine insertion. Optional adhesive backing.

Recommended compression:

- Brush pile height from 3.0 to 5.0 mm: 5% to 10%
- Brush pile height from 5.5 to 6.5 mm: 10% to 20%
- Brush pile height from 7.0 and above: 15% to 25%

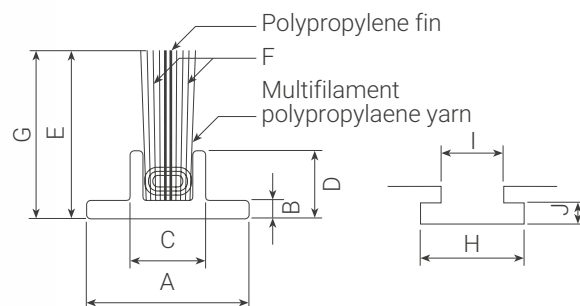
	4,8	6,7	6,9
H	5,3	7,5	7,7
I	3,2	3,2	3,2
J	1,3	1,3	1,3

Minimum clearance recommended: +0.5 mm of backing width chosen

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS					
A Backing width*	B Backing thickness	C Directors width	D Directors height	E Brush height	F Brush density (P)
4,8 ± 0,2 mm 6,7 ± 0,2 mm 6,9 ± 0,2 mm	0,65 ± 0,1 mm	2,5 ± 0,3 mm	2,4 ± 0,3 mm	5,0 ≤ E ≤ 8,0 mm (+0,50/-0,50 mm) with 0,50 mm intervals 8,0 < E ≤ 25,0 mm (+0,50/-0,50 mm) with 1,0 mm intervals	4P
Multifilament pile yarn colours (≈ RAL)					
1011 Beige	1032 Dark gold	7045 Grey	8025 Pale brown	8028 Brown	9003 White
					9005 Black
*With optional hot-melt adhesive (HM) • Note: total height will increase up to 0,5 mm if hot-melt requested					

FIN-PILE (FP): EXTRUDED BRUSH PILE SEALS



Soft silicone treated multifilament pile yarn on an extruded base with upstanding directors. Guaranteed on centre pile, more suitable for machine insertion clear centre fin keep brush visually intact while providing improved weather sealing for sliding windows and doors. Optional adhesive backing.

	4,8	6,7	6,9
H	5,3	7,5	7,7
I	3,2	3,2	3,2
J	1,3	1,3	1,3

Minimum clearance recommended: +0.5 mm of backing width chosen

Recommended compression:

- Brush pile height from 5.5 to 6.5 mm: 10% to 20%.
Level fin only
- Brush pile height from 7.0 mm and above: 15% to 25%

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS

A Backing width*	B Base thickness	C Directors width	D Directors height	E Brush height	G Fin height** (≥ 5 mm)	F Brush density (P)
4,8 ± 0,2 mm 6,7 ± 0,2 mm 6,9 ± 0,2 mm	0,65 ± 0,1 mm	2,6 ± 0,3 mm	2,4 ± 0,3 mm	5 ≤ E ≤ 8 mm (+0,50/-0,50 mm with 0,50 mm intervals) H ≤ 20 mm (+0,50/-0,50 mm with 1 mm intervals)	Level only (+0,50/-0,50 mm)	4P

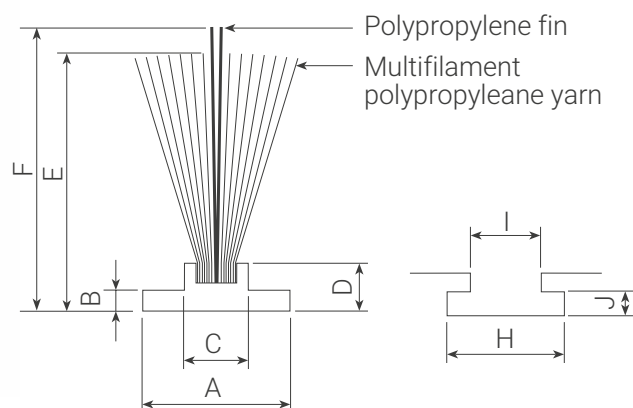
Multifilament pile yarn colours (≈ RAL)

1011	1032	7045	8025	8028	9003	9005
Beige	Dark gold	Grey	Pale brown	Brown	White	Black

*With optional hot-melt adhesive (HM) • Note: total height will increase up to 0,5 mm if hot-melt requested

**With optional quiet black non-woven (NW) fin



G3:**EXTRUDED BRUSH PILE SEALS**

Soft silicone treated multifilament yarn on an extruded base. Guaranteed on centre pile, more suitable for machine insertion.

With clear centre fin for improved weather sealing of sliding windows and doors. Optional adhesive backing.

Recommended compression:

- Brush pile height from 4.0 to 5.0 mm: 5% to 10%.
Fin should be plus 1 mm
- Brush pile height from 5.5 to 6.5 mm: 10% to 20%.
Fin either level or plus 1 mm
- Brush pile height from 7.0 mm to 11 mm: 15% to 25%.
Fin either level or plus 1 mm
- Brush pile height from 12.0 mm and above: 15% to 25%.
Fin level only

	4,8	6,7	6,9
H	5,3	7,5	7,7
I	3,2	3,2	3,2
J	1,3	1,3	1,3

Minimum clearance recommended: +0.5 mm of backing width chosen

TECHNICAL SPECIFICATION**STANDARD SOLUTIONS**

A Backing width*	B Backing thickness	C Directors width	D Directors height	E Brush height	F Fin height** (≥ 5 mm)	G Brush density (P)
4,8 ± 0,2 mm 6,7 ± 0,2 mm 6,9 ± 0,2 mm	0,65 ± 0,1 mm	2,5 ± 0,3 mm	2,3 ± 0,2 mm	4 ≤ E ≤ 5 mm (+0,50/-0,50 mm with 0,50 mm intervals)	E+1 mm (+0,50/-0,50 mm)	4P
				5,5 ≤ E ≤ 8 mm (+0,50/-0,50 mm with 0,50 mm intervals)	Level or E+1 mm (+0,50/-0,50 mm)	
				8 ≤ E ≤ 12 mm (+0,50/-0,50 mm with 1 mm intervals)	Level only (+0,50/-0,50 mm)	
				12 ≤ E ≤ 20 mm (+0,50/-0,50 mm with 1 mm intervals)	Level only (+0,50/-0,50 mm)	

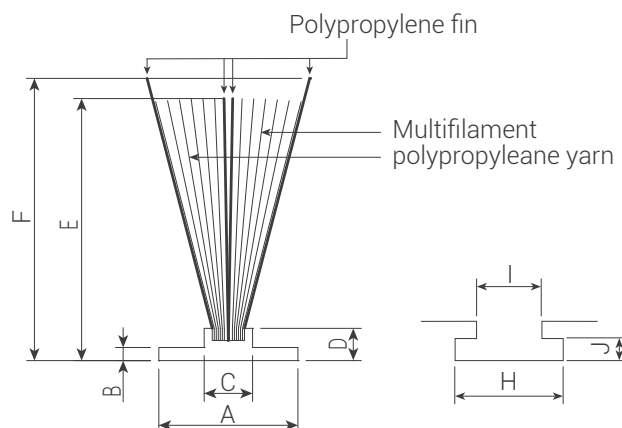
Multifilament pile yarn colours (≈ RAL)

1011	1032	7045	8025	8028	9003	9005
Beige	Dark gold	Grey	Pale brown	Brown	White	Black

*With optional hot-melt adhesive (HM) • Note: total height will increase up to 0,5 mm if hot-melt requested

**With optional quiet black non-woven (NW) fin

G3-QF (QUADRAFIN): EXTRUDED BRUSH PILE SEALS



Soft silicone treated multifilament yarn on an extruded base. Guaranteed on centre pile, more suitable for machine insertion.

With clear centre fin for improved weather sealing of sliding windows and doors. Optional adhesive backing.

Recommended compression:

- Brush pile height from 5.0 to 6.5 mm: 10% to 20%.
Fin either level or plus 1 mm
- Brush pile height from 7.0 mm to 11 mm: 15% to 25%.
Fin either level or plus 1 mm
- Brush pile height from 12.0 to 15 mm: 15% to 25%.
Fin level only

	4,8	6,7	6,9
H	5,3	7,5	7,7
I	3,2	3,2	3,2
J	1,3	1,3	1,3

Minimum clearance recommended: +0.5 mm of backing width chosen

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS

A Backing width*	B Backing thickness	C Directors width	D Directors height	E Brush and central Fin height	F outside Fin height** (≥ 5 mm)	G Brush density (P)
4,8 ± 0,2 mm 6,7 ± 0,2 mm 6,9 ± 0,2 mm	0,65 ± 0,1 mm	2,5 ± 0,3 mm	2,3 ± 0,2 mm	5 ≤ E ≤ 8 mm (+0,50/-0,50 mm with 0,50 mm intervals) 8 ≤ E ≤ 12 mm (+0,50/-0,50 mm with 1 mm intervals) 12 ≤ E ≤ 15 mm (+0,50/-0,50 mm with 1 mm intervals)	Level or E+1 mm (+0,50/-0,50 mm)	4P

Multifilament pile yarn colours (≈ RAL)

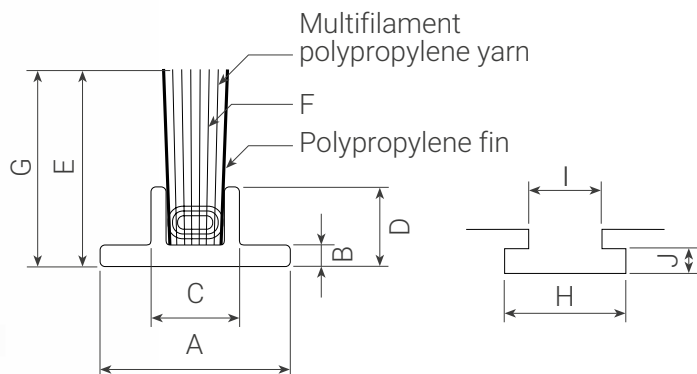
1011	1032	7045	8025	8028	9003	9005
Beige	Dark gold	Grey	Pale brown	Brown	White	Black

*With optional hot-melt adhesive (HM) • Note: total height will increase up to 0,5 mm if hot-melt requested

**With optional quiet black non-woven (NW) fin



BI-FIN (BF): EXTRUDED BRUSH PILE SEALS



Soft silicone treated multifilament pile yarn on an extruded base with upstanding directors. Guaranteed on centre pile, more suitable for machine insertion.
clear lateral fin allow for side protection of the yarn and improve weather sealing of sliding applications.
Optional adhesive backing.

Recommended compression:

- Brush pile height from 5.5 to 6.5 mm: 10% to 20%.
Level fin only
- Brush pile height from 7.0 mm and above: 15% to 25%

	4,8	6,7	6,9
H	5,3	7,5	7,7
I	3,2	3,2	3,2
J	1,3	1,3	1,3

Minimum clearance recommended: +0.5 mm of backing width chosen

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS

A Base width*	B Base thickness	C Directors width	D Directors height	E Brush height	G Fin height** (≥ 5 mm)	F Brush density (P)
4,8 ± 0,2 mm 6,7 ± 0,2 mm 6,9 ± 0,2 mm	0,65 ± 0,1 mm	2,6 ± 0,3 mm	2,4 ± 0,3 mm	6 ≤ E ≤ 8 mm (+0,50/-0,50 mm with 0,50 mm intervals) 8 ≤ E ≤ 20 mm (+0,50/-0,50 mm with 1 mm intervals)	Level only (+0,50/-0,50 mm)	4P

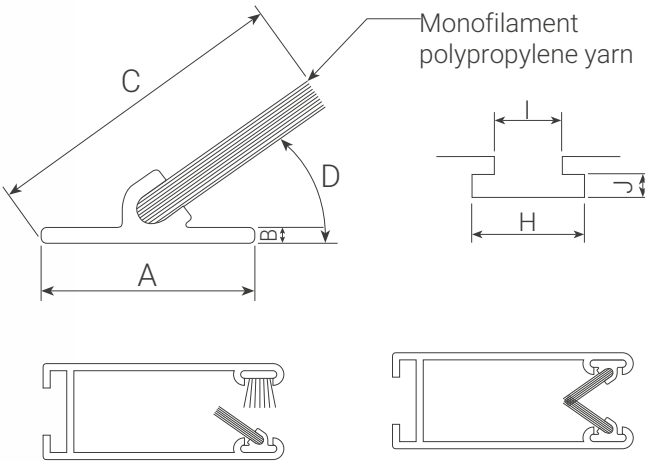
Multifilament pile yarn colours (≈ RAL)

1011	1032	7045	8025	8028	9003	9005
Beige	Dark gold	Grey	Pale brown	Brown	White	Black

*With optional hot-melt adhesive (HM) • Note: total height will increase up to 0,5 mm if hot-melt requested

**With optional quiet black non-woven (NW) fin

ANGLE-PILE (AP): EXTRUDED BRUSH PILE SEALS



Untreated monofilament yarn with extruded base. Available in 35°, 45° or 60° angles. Guaranteed on centre pile, suitable for machine insertion. Predominantly applied in side guiding channels of rolling insect screens. Install single with softer standard pile, or double, to hold the screen mesh in the guides.

Recommended compression:

- 15-20%

	4,8	6,9
H	5,3	7,7
I	3,2	3,2
J	1,3	1,3

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS				
D Angles	A	B	C	
	Base width*	Base thickness	Brush height	Brush density
45 ± 5° 60 ± 5°	4,8 ± 0,2 mm	0,65 ± 0,15 mm	9,0 ≤ C ≤ 12,0 ± 0,5 mm with 0,50 mm intervals	24
	6,9 ± 0,2 mm		12,0 < C ≤ 25,0 ± 0,5 mm with 1,0 mm intervals	

Multifilament pile yarn colours (≈ RAL)

9005

7045

Black

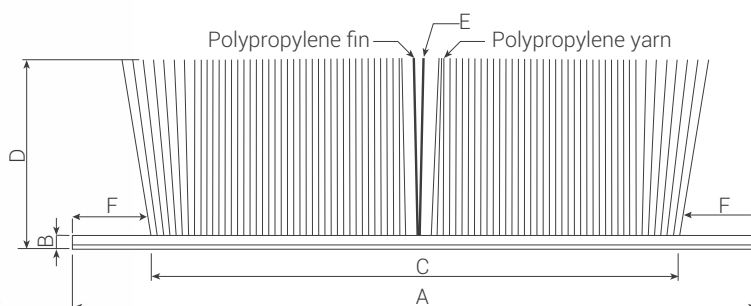
Grey

Natural

**With optional hot-melt adhesive (HM). Note: total height will increase up to 0,5 mm if hot-melt requested.*



DUST-PLUG (DP): WOVEN BRUSH PILE SEALS



Soft silicone treated multifilament pile yarn on a woven reinforced translucent backing. Available cut-to-size and in lengths for specific and generally wider sealing applications like in corners of sliding doors or furniture. Optional adhesive backing, fins and untreated monofilament edges.

Recommended compression:

- Standard (without fins): 15-20%
- Fin level with or lower than pile: 10-15%
- Fin higher than pile: 5-10%

TECHNICAL SPECIFICATION

CUSTOMISED SOLUTION					
A Base width*	B Backing thickness	C Pile base width	D Brush and optional centre fin height	E Brush density	F=A-C
$10 \leq W \leq 60 \pm 0,5$ mm with 0,5 mm intervals	$0,8 \pm 0,15$ mm	$6 \leq W \leq 56 \pm 1,0$ mm	$3 \leq D \leq 6,5$ mm (+0,25/-0,15 mm with 0,50 mm intervals)	8P - 76P	min 2 mm
			$6,5 \leq D \leq 22$ mm (+4%/-2,5% with 1 mm intervals)		
			Fin D > 5 mm (+0,25/-0,15 mm with 0,50 mm intervals)		
			Fin Level only (+0,50/-0,50 mm)		

Multifilament pile yarn colours ($\approx$ RAL)



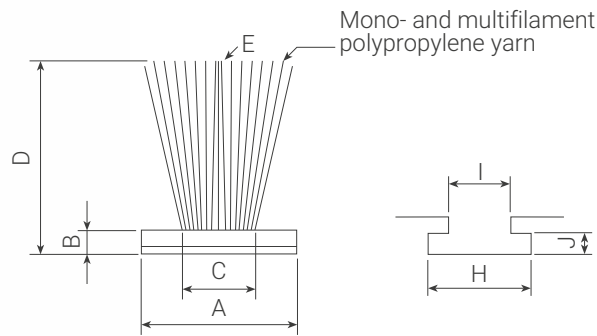
Other configurations upon request

- Strengthening monofilament edges
- Fin alternatives under design

*With optional hot-melt adhesive (HM). Note: total height will increase up to 0,5 mm if hot-melt requested.

SHUTTER-PILE (SP):

WOVEN BRUSH PILE SEALS



Woven pile on a translucent backing. Soft silicone treated multifilament yarn, partially strengthened with stiffer untreated monofilament. It's typically inserted in T-slots of side guiding channels for sealing of roller shutters and similar products. Optional adhesive backing.

Recommended compression:

- Brush pile height from 3.0 to 15.0 mm: 15% to 20%

	4,8	6,7	6,9
H	5,3	7,5	7,7
I	3,2	3,2	3,2
J	1,3	1,3	1,3

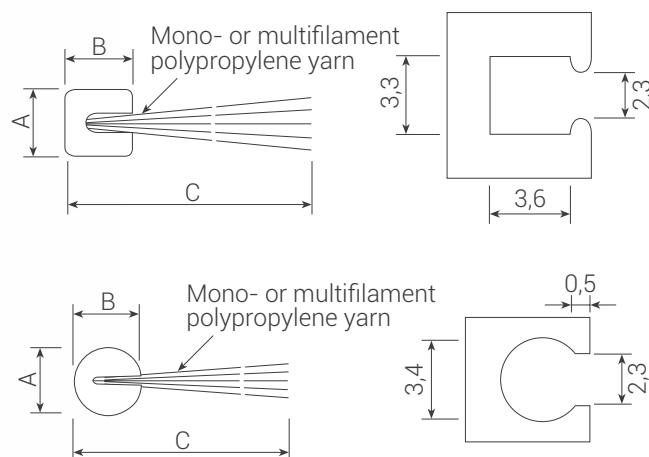
Minimum clearance recommended: +0.5 mm of backing width chosen

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS				
A Backing width*	B Backing thickness	C Pile base width	D Brush height	E Brush density (P) in line (L) with monofilament (M)
4,8 +0,10/-0,15 mm 6.7 +0,10/-0,20 mm 6.9 +0,10/-0,20 mm	0,8 ± 0,15 mm	1,6 ± 0,3 mm	3,0 ≤ D ≤ 6,5 mm (+0,25/-0,15 mm) with 0,50 mm intervals	2P1L1M 3P1L1M
			6,5 < D ≤ 10,0 mm with 0,5 mm intervals (+4%/-2,5% mm)	
			10,0 < D ≤ 15,0 mm (+4%/-2,5% mm) with 1,0 mm intervals	
Multifilament pile yarn colours (≈ RAL)		Monofilament pile yarn (ø 0,20 mm) colours (≈ RAL)		
9005 7045 Black Grey		9005 Black Natural		
*With optional hot-melt adhesive (HM) • Note: total height will increase up to 0,5 mm if hot-melt requested				



SKIRTING-FRINGE (SF): EXTRUDED BRUSH PILE SEALS

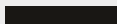
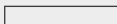
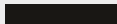


Extruded square or round base for sealing of gaps at the edges of swing doors, roller shutters and other similar narrow profile applications. Stiffer untreated 6-ply monofilament or softer silicone treated multifilament yarn. Other base shapes and dimensions are available upon request.

Recommended compression:

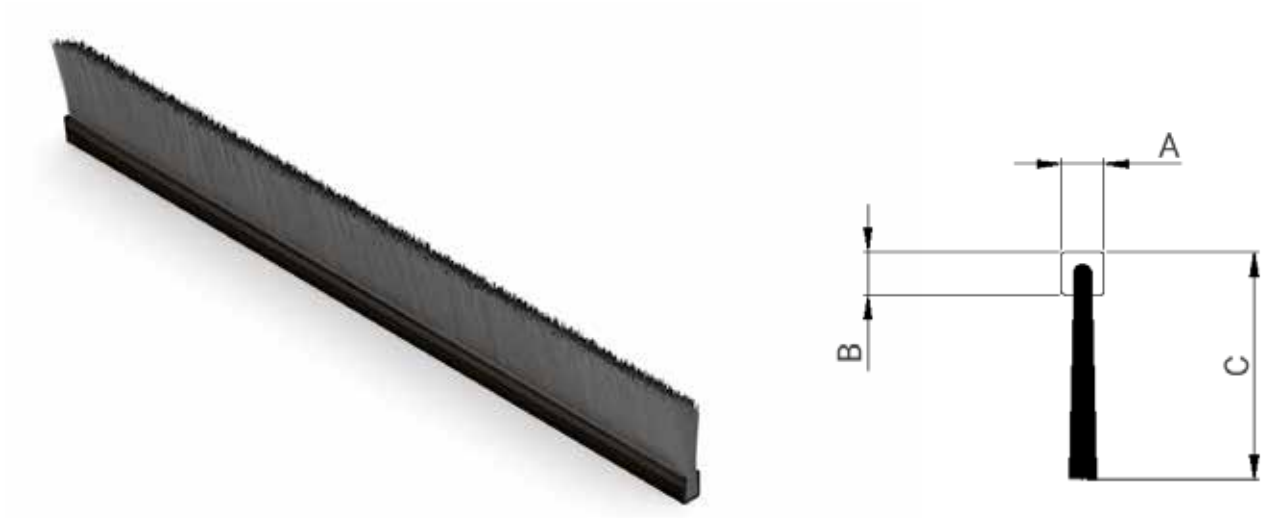
- 15-20 %

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS			
A Base width	B Base height	C Brush height	Monofilament density
Square $2,7 \pm 0,15$ mm Square $2,9 \pm 0,15$ mm Square $3,1 \pm 0,15$ mm Square $3,3 \pm 0,15$ mm Round $2,7 \pm 0,15$ mm Round $2,9 \pm 0,15$ mm Round $3,1 \pm 0,15$ mm Round $3,3 \pm 0,15$ mm	2,7 (+0,15 / -0,35) 2,9 (+0,15 / -0,35) 3,1 (+0,15 / -0,35) 3,3 (+0,15 / -0,35)	$5,0 \leq C \leq 30,0 \pm 0,5$ mm with 1,0 mm intervals	24
			Monofilament pile yarn colours ($\approx$ RAL) 9005   Black Natural
			Multifilament density (P) 4P
			Multifilament pile yarn colours ($\approx$ RAL) 9005   Black Grey

FLEX-BRUSH:

COILABLE BRUSH PILE SEALS



Extruded square base for sealing of revolving doors, escalators, garage doors or industrial doors. Monofilament yarn available in Polyamide 6 e Polypropylene. Other base shapes and dimensions are available upon request.

TECHNICAL SPECIFICATION

STANDARD SOLUTIONS			
A Base width	B Base height	C Brush height	Brush density
3 mm	3 mm	10 – 50 mm (interval of 1 mm)	HD15
3,5 mm	3,5 mm		
4 mm	4 mm		
4,5 mm	4,5 mm		

Polypropylene colours (≈ RAL)

9005

7045

Black

Grey

Polyamide colours (≈ RAL)

9005

Black



KERF PILE (KP):

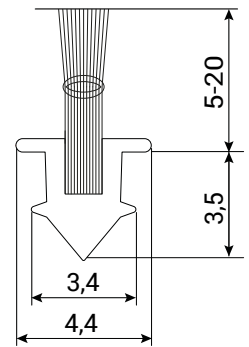
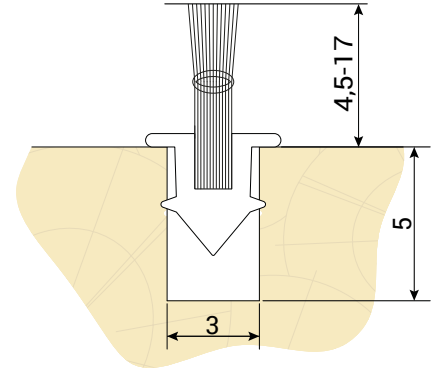
EXTRUDED BRUSH PILE SEALS



Soft silicone treated multifilament pile yarn on a dedicated extruded base designed to fit a timber groove. Easy insertion and good held in.

Recommended compression:

- 15-20%.

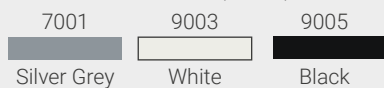


TECHNICAL SPECIFICATION

STANDARD SOLUTIONS

Groove width	Min. groove depth	Brush height	F Brush density (P)
3 mm	5 mm	$5,0 \leq H \leq 8,0 \text{ mm (+0,50/-0,50 mm)}$ with 0,50 mm intervals	5P
		$8,0 < H \leq 25,0 \text{ mm (+0,50/-0,50 mm)}$ with 1,0 mm intervals	

Pile Colours ($\approx$ RAL)



Extrusion Colours



COMBINATION BRUSH PILE SEALS

- Rigid ABS, PP or PVC extrusion for universal surface or kerf-slot fitting
- Fitted with brush pile according to specification
- Alternatively extruded profile for retro-fit with brush pile from coil



FOR UNIVERSAL SURFACE FITTING

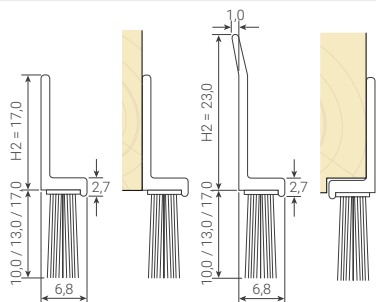
PB = Poly-Bond brush pile seals on extruded ABS, PP or PVC carrier

F Suitable for frame seal

S Suitable for sash seal

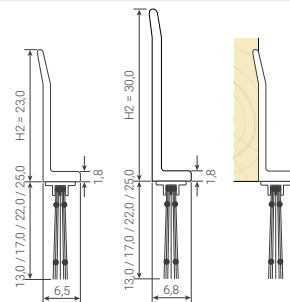
PB 1175 (DX 1175) DOOR BRUSH SEAL

Seal gap: 8,0 - 15,0
Packaging: 50 m x 4



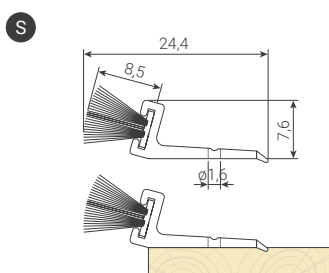
PB 1444 (DX 1444) DOOR BRUSH SEAL

Seal gap: 11,0 - 23,0
Packaging: 50 m x 4
50 m x 3
45 m x 3



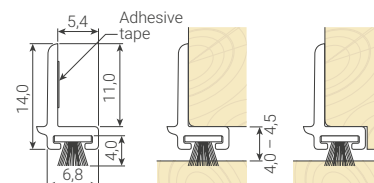
PB 6726 (EX 6726) ANGLED DOOR AND WINDOW BRUSH SEAL

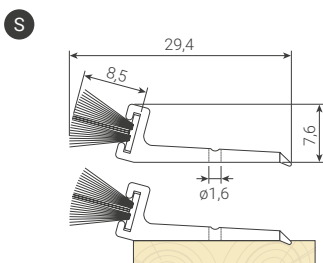
Packaging: 2,03 m x 100



PB 1421 (DX 1421) DOOR BRUSH SEAL

Seal gap: 4,0a - 4,5
Packaging: 2,088 m x 250



PB 7723 (EX 7723)
 ANGLED DOOR AND
 WINDOW BRUSH SEAL

Packaging: 2,05 m x 50

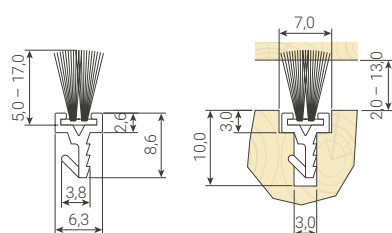
FOR KERF-SLOT FITTING

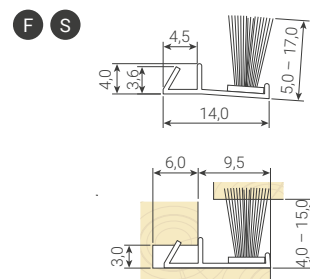
PB = Poly-Bond brush pile seals on extruded ABS, PP or PVC carrier

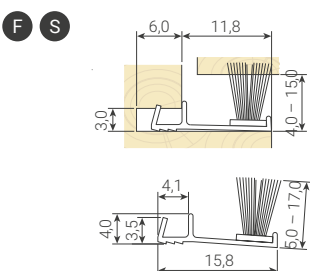
F Suitable for frame seal

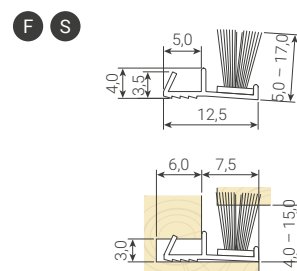
S Suitable for sash seal

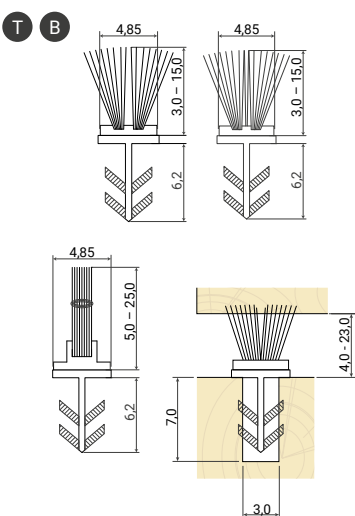
PB 0908 (DX 0908)
 DOOR BRUSH SEAL

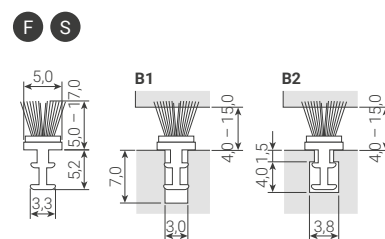
Groove width: 3,0
Min. groove depth: 10,0
Seal gap: 2,0 - 13,0
Packaging: 2,1 m x 250

PB 1001 (EX 001)
 SLIDING TIMBER
 WINDOW BRUSH SEAL

Groove width: 3,0
Min. groove depth: 6,0
Rebate: 9,5
Seal gap: 4,0 - 15,0
Packaging: 150 m x 1

PB 1002 (EX 002)
 SLIDING TIMBER
 WINDOW BRUSH SEAL

Groove width: 3,0
Min. groove depth: 6,0
Rebate: 11,8
Seal gap: 4,0 - 15,0
Packaging: 150 m x 1

PB 1003 (EX 003)
 SLIDING TIMBER
 WINDOW BRUSH SEAL

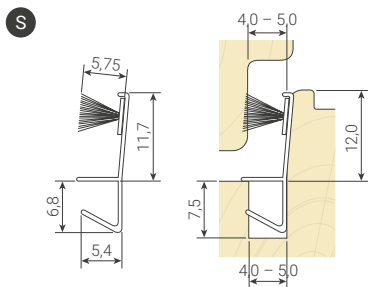
Groove width: 3,0
Min. groove depth: 6,0
Rebate: 7,5
Seal gap: 4,0 - 15,0
Packaging: 100 m x 1

PW 1018 FLEX
PB 1018 FLEX (EX 018)
 SLIDING INTERNAL
 TIMBER DOOR BRUSH
 SEAL

Groove width: 3,0
Min. groove depth: 7,0
Seal gap: 4,0 - 15,0
Packaging: 200 m x 2
 2,1 m x 300

PB 1021 (EX 021)
 SLIDING ALUMINIUM
 DOOR BRUSH SEAL

Groove width:
 3,0 nom. (B1);
 2,5 min. to 3,8 max. (B2)
Min. groove depth: 7,0
Seal gap: 4,0 - 15,0
Packaging: 400 m x 1


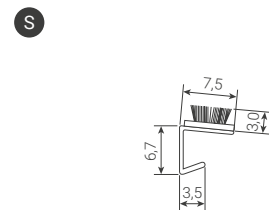
PB 1316 (DX 1316)
AIR VENTILATION
BRUSH SEAL

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 12,0
Seal gap: 4,0 - 5,0
Packaging: 30 m x 7



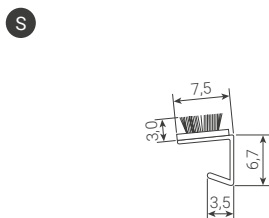
PB 1372 (DX 1372)
BRUSH SEAL (RH)

Groove width: 3,0
Min. groove depth: 7,0
Packaging: 650 m x 1



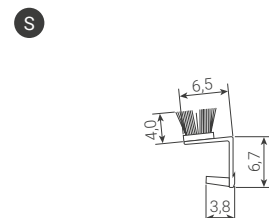
PB 1451 (DX 1451)
BRUSH SEAL (LH)

Groove width: 3,0
Min. groove depth: 7,0
Packaging: 650 m x 1



PB 1466 (DX 1466)
DUST FILTER BRUSH
SEAL

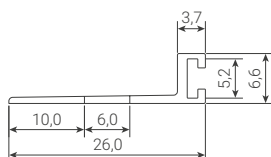
Groove width: 3,0
Min. groove depth: 7,0
Packaging: 650 m x 1



FOR BRUSH PILE SEALS

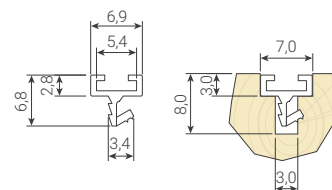
LV 3015
L-PROFILE CARRIER
7 X 26 WITH 4,8
BRUSH INSERT

Packaging: 2,6 m x 100



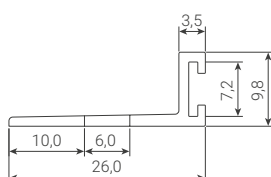
LV 5438
KERF-SLOT CARRIER
7 X 7 WITH 4,8
BRUSH INSERT
INSERT

Groove width: 3,0
Min. groove depth: 8,0
Packaging: 2,2 m x 200



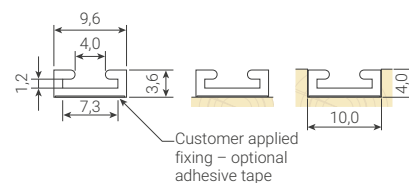
LV 3016
L-PROFILE CARRIER
10 X 26 WITH 6,9
BRUSH INSERT

Packaging: 1,0 m x 100



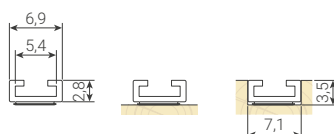
LV 0921
C-CHANNEL
10 X 4 WITH 6,9 BRUSH
INSERT

Groove width: 10,0
Min. groove depth: 4,0
Packaging: 50 m x 9



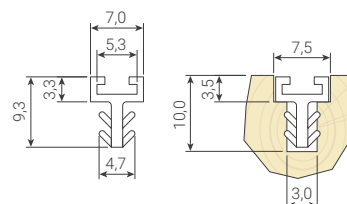
LV 5594
ADHESIVE C-CHANNEL
WITH 4,8 BRUSH
INSERT

Groove width: 7,1
Min. groove depth: 3,5
Packaging: 2,1 m x 100



LV 5032
KERF-SLOT CARRIER
7 X 9 WITH 4,8
BRUSH INSERT

Groove width: 4,0
Min. groove depth: 10,0
Packaging: 2,1 m x 50



Q-LON POLYURETHANE FOAM SEALS:

FOR TIMBER, PVCU AND ALUMINIUM APPLICATIONS FOAM SEAL

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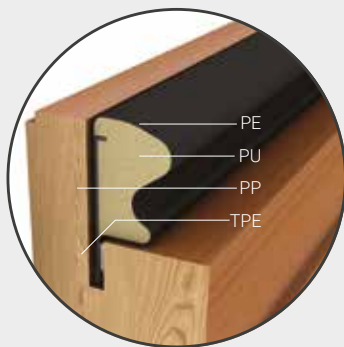
Q-LON POLYURETHANE FOAM SEALS: PROVED AND TESTED FOR ALMOST 50 YEARS

Made with a unique combination of materials and with technical performance unparalleled by any other material used in seals, Schlegel Q-Lon offers the highest standard of sealing function – even under extreme conditions.

Continuous research and development, as well as strict material inspection and quality inspections, have made Q-Lon one of the best established sealing systems in the industry today.

Q-Lon foam seals – the ultimate benefits in material and function:

- Excellent memory – returns to original shape after long compression
- Stability – low / no stretch gained by rigid insert or glass fibre internal cord
- Easily compressed – low compression forces, unaffected by temperature variance
- Acoustics – outstanding acoustic performance
- Thermal conductivity – unrivalled thermal performance
- Paint and stain proof – properties unaffected by standard paints and stains
- Stabilised – unaffected by rot, fungi, UV-light or ozone
- Colours – white, black, brown, grey and many other options
- Temperatures – wide operating range under extremely cold and warm weather conditions



- Polyurethane (PU) foam core – high durability, superior recovery performance
- Polyethylene (PE) film – weather and UV-resistant
- Glass fibre thread or polypropylene (PP) insert – prevents elongation and shrinkage
- Smooth or embossed exterior, resistant to contamination
- Compatible with cleaning agents

Independent Testing

Q-Lon has been extensively tested by independently certified test facilities that clearly demonstrate its superior performance over other commonly used seal materials and constructions. In particular, it has been shown that Q-Lon seals retain their properties and performance significantly better over time when, after 10,000 cycles of window and / or door opening and closing, other materials lose their ability to meet the normal operational requirements.

Areas affected include weathering performance, thermal insulation, sound attenuation and air tightness.

A good guide to the performance of weatherseals and gaskets can be found in EN 12365:2003. For a greater insight into this and other performance norms please refer to the Schlegel 'Guide to Weatherseal Selection & Specification in Europe'.

Tested and certified by:



THE CLASSIFICATIONS OF WEATHERSEALS TO EN 12365 2003

Under EN 12365 2003 there is a prescribed classification system that enables window, door, shutter and curtain walling manufacturers or installers to ensure that they are using the component that best meets their requirements.

It is important that evidence is provided and the classification of each seal demonstrated.

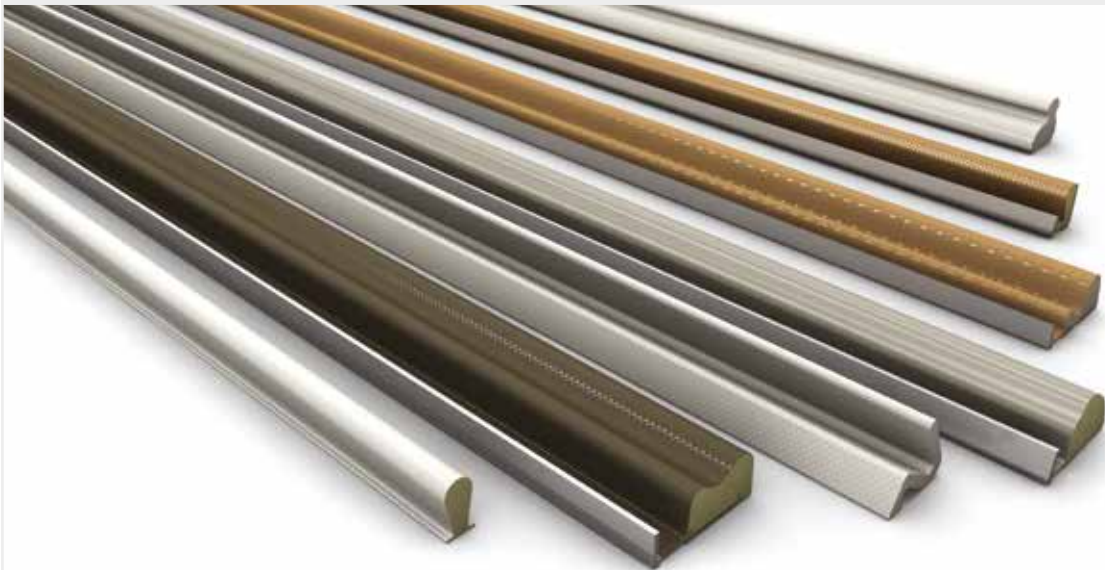
A SIX DIGIT SYSTEM IS USED:

1	2	3	4	5	6
Category of Use	Working Range	Linear Compression Force	Working Temperature Range	Deflection Recovery	Recovery After Ageing
W = Weatherstrip G= Gasket	9 grades showing the working range of the seal with 9 being the greatest distance	9 grades showing the linear compression force with 9 being the greatest force	6 grades showing the working temperature range each with different high and low temperatures	8 grades showing deflection recovery with grade 0 indicating no requirement and grade 7 showing the greatest recovery	8 grades showing recovery after ageing with grade 0 indicating no requirement and grade 7 showing the greatest recovery
	Grades 1: ≤ 1mm 2: >1mm ≤2mm 3: >2mm ≤4mm 4: >4mm ≤6mm 5: >6mm ≤8mm 6: >8mm ≤10mm 7: >10mm ≤15mm 8: >15mm ≤30mm 9: >30mm	Grades 1: ≤ 10 N/m 2: >10 N/m ≤20 N/m 3: >20 N/m ≤50 N/m 4: >50 N/m ≤100 N/m 5: >100 N/m ≤200 N/m 6: >200 N/m ≤500 N/m 7: >500 N/m ≤700 N/m 8: >700 N/m ≤1000 N/m 9: >1000 N/m	Grades 1: 0°C to +45°C 2: -10°C to +55°C 3: -20°C to +85°C 4: -25°C to +100°C 5: -40°C to +70°C 6: 0°C to +200°C	Grades 0: No Requirement 1: >30% to 40% 2: >40% to 50% 3: >50% to 60% 4: >60% to 70% 5: >70% to 80% 6: >80% to 90% 7: >90%	Grades 0: No Requirement 1: >30% to 40% 2: >40% to 50% 3: >50% to 60% 4: >60% to 70% 5: >70% to 80% 6: >80% to 90% 7: >90%

When assessing the performance requirement, the greater the grade does not always show the best level of performance. So, when comparing categorisations higher scores are usually better but careful analysis is required to ensure that the needs of the particular application are met.

A TYPICAL CLASSIFICATION THEREFORE TAKES THE FORM OF:

W	5	3	6	4	5
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PRODUCT PERFORMANCE TABLES

The methodology for the linear compression test, the deflection recovery test and the recovery after ageing test are all described in EN 12365 2003 parts 2, 3 and 4. All

testing should be carried out by an accredited test facility. The testing facilities at SchlegelGiesse in Hamburg are accredited by ift Rosenheim.

Q-LON CLASSIFICATION TO EN 12365 2003

QL 1026	W	2	6	2	7	6
QL 1032	W	3	5	2	7	6
QL 3004	W	2	6	2	7	6
QL 3005 / AQ 63	W	3	5	2	6	6
QL 3006	W	6	2	2	7	6
QL 3009	W	3	2	2	6	6
QL 3011	W	3	5	2	7	6
QL 3012	W	4	5	2	7	6
QL 3015 / AQ 122	W	2	5	2	7	6
QL 3013 / AQ 48	W	1	5	2	7	6
QL 3020	W	4	4	2	6	6
QL 3021	W	3	5	5	6	5
QL 3025	W	2	5	2	6	6
QL 3034	W	3	6	2	7	6
QL 3037 / AQ 4846	W	3	5	2	6	6
QL 3042	W	2	4	2	7	6
QL 3053	W	3	5	2	6	6
QL 3054	W	3	5	2	7	6
QL 3056	W	3	4	2	7	5
QL 3059	W	3	3	2	6	5
QL 3061	W	3	3	2	6	6
QL 3063	W	3	6	2	6	6
QL 3067	W	3	5	2	7	6
QL 3068	W	3	5	2	7	5
QL 3070	W	2	5	2	6	6
QL 3072	W	2	4	2	6	5
QL 3073	W	4	4	2	7	5
QL 3074	W	2	6	2	7	6
QL 3076	W	3	4	2	6	6
QL 3078	W	3	3	2	6	6
QL 3079	W	2	4	2	6	6
QL 3082	W	3	5	2	7	5
QL 3091	W	4	4	2	6	5
QL 3093	W	4	4	2	6	6
QL 3094	W	3	2	2	6	5
QL 3095	W	3	2	2	7	5
QL 3096	W	3	3	2	6	5
QL 3097	W	3	5	2	6	6
QL 3098	W	3	3	2	6	6
QL 3099	W	3	3	2	6	6
QL 3101	W	3	5	2	7	6
QL 3102	W	3	3	2	6	6
QL 3103	W	3	5	2	6	6
QL 3104	W	4	4	2	7	5
QL 3106	W	2	5	2	7	6

QL 3109	W	4	3	2	7	6
QL 3110	W	2	5	2	6	6
QL 3111	W	3	5	2	5	6
QL 3113	W	3	5	2	6	6
QL 3116	W	3	4	2	6	6
QL 3117	W	2	3	2	6	6
QL 3118	W	3	1	2	7	6
QL 3121	W	3	2	2	6	6
QL 3122	W	1	7	2	7	6
QL 3124	W	1	6	2	7	6
QL 3126	W	1	7	2	7	6
QL 3128	W	3	2	2	6	5
QL 3130	W	3	4	2	6	6
QL 3130	W	2	4	2	6	6
QL 3131	W	2	5	2	6	6
QL 3138	W	2	5	2	7	6
QL 3139	W	3	1	2	7	6
QL 3140	W	3	5	2	6	6
QL 3141	W	3	5	2	5	5
QL 3141	W	2	4	2	5	5
QL 3143	W	2	6	2	7	5
QL 3147	W	3	4	2	6	6
QL 3150	W	3	3	2	6	6
QL 3151	W	3	3	2	6	6
QL 3152	W	3	3	2	6	6
QL 4465	W	2	5	2	6	6
QL 45	W	2	7	2	7	6
QL 48400	W	1	6	2	6	6
QL 48447	W	3	3	2	6	6
QL 48510	W	1	5	2	5	6
QL 48650	W	2	5	2	5	6
QL 4870	W	2	3	2	6	6
QL 48700	W	3	3	2	7	6
QL 48750	W	2	5	2	6	6
QL 48800	W	3	4	2	7	6
QL 48950	W	3	4	2	6	6
QL 50	W	2	5	2	7	6
QL 5271	W	2	5	2	6	6
QL 55	W	2	5	2	6	6
QL 5570	W	2	4	2	6	6
QL 5626	W	3	3	2	5	6
QL 5694	W	4	3	2	6	6
QL 57700	W	2	5	2	6	6
QL 5878	W	2	5	2	4	6
QL 5985	W	2	4	2	7	6

QL 60	W	3	5	2	7	6
QL 6571	W	3	5	2	6	6
QL 6750	W	3	4	2	6	6
QL 69400	W	1	5	2	5	6
QL 69447	W	3	3	2	6	6
QL 69510	W	1	5	2	4	6
QL 69650	W	1	5	2	6	6
QL 69700	W	3	3	2	7	6
QL 69750	W	2	4	2	6	6
QL 69800	W	3	4	2	6	6
QL 6991	W	2	5	2	6	6
QL 69950	W	3	4	2	6	6
QL 7000	W	5	2	2	6	6
QL 7032	W	3	4	2	6	6
QL 7066	W	3	3	2	6	6
QL 7307	W	3	5	2	7	6
QL 836	W	3	3	2	6	6
QL 9005	W	2	4	2	6	6
QL 9100	W	3	5	2	7	6
QL 9111	W	3	4	2	6	6
QL 9112	W	3	5	2	7	6
QL 9154	W	3	5	2	6	6
QL 9257	W	3	3	2	7	6
QL 9489	W	2	6	2	7	6
QL 9536	W	4	3	2	7	6
QL 9596	W	2	6	2	7	6
QL 9646	W	3	5	2	7	6
QL 9608	W	3	3	2	7	6
QL 9613	W	3	3	2	7	6
QL 9688	W	3	3	2	7	6
QL 9710	W	3	5	2	6	6
QL 9756	W	2	5	2	7	6
QL 9898	W	3	5	2	7	6
QL 9926	W	3	3	2	7	6
QL 9928	W	3	4	2	7	6
QL 9985	W	3	5	2	7	6

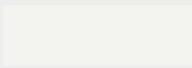
Q-LON



Q-LON POLYURETHANE FOAM SEALS: COLOUR RANGE

THE UNIQUE Q-LON SEAL IS MADE FROM A SPECIAL POLYURETHANE FOAM, CONTAINED IN A WEATHER RESISTANT POLYETHYLENE LINER.

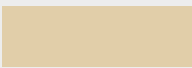
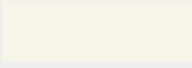
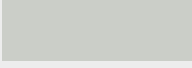
The standard foam colour is natural. The liner is available in the following main colours (bronze for timber applications):

≈ RAL	Code	Colour
9003	222	 White
7001	212	 Silver Grey
8019	220	 Brown
9005	223	 Black

Other configurations upon request

For further colour coordination, more options are available. Depending on the configuration, special conditions may apply. Upon request the foam can be produced in a different colour.

The liner can further be made available in the following colours:

≈ RAL	Code	Colour
1001	211	 Beige
8003	217	 Light Oak
8001	216	 Ochre Brown
8007	218	 Fawn Brown
8015	219	 Chestnut Brown
9010	221	 Pure White
7035	215	 Light Grey
7032	252	 Dark Grey
7024	214	 Graphite Grey

Q-LON POLYURETHANE FOAM SEALS: TESTING AND RESULTS

Specifically designed for timber windows and entry doors, Q-Lon foam seals combine the best thermal performance along with good soundproofing properties across a wide temperature range. Very low operating forces reduce wear and tear and give ease of operation.

TECHNICAL INFORMATION

Tested temperature range	-60 °C to +70 °C - see EN12365 Classification - Reached -60° according to Russian PCT Certification
Heat conductivity	0,041 W/mK at 0 °C
Compatibility	compatible with PVCu, no staining formation in the contact material
Exterior Liner:	Polyethylene, low friction, UV stable
Melt Index Liner:	Approx. 0,85 g/10 min at 190 °C, 2,16 kg mass – 2,0MI
Thermal Conductivity Liner:	0,33 W/(m·K)
Thermal Conductivity Q-Lon Seal:	0,041 W/(m·K)
UV Resistance Liner:	8 GJ/m ²



Q-LON POLYURETHANE FOAM SEALS: OVERVIEW SEAL RANGE

UNIVERSAL SURFACE FITTING

Surface-fit	Dimensions (mm)			
	Seal		Application	
	Width	Height	Rebate	Seal Gap
Taped				
QL 1026	12,0	4,0	12,0	1,0 - 3,0
QL 1032	12,0	7,0	12,0	2,0 - 6,0
QL 3015	8,0	5,0	8,0	2,5 - 4,0
QL 3116	10,8	8,7	11,0	3,0 - 5,5
QL 3117	11,2	6,5	11,0	3,0 - 5,5
QL 3121	15,0	12,0	15,0	5,0 - 10,0
QL 3122	7,0	2,2	7,0	0,5 - 2,0
QL 3124	6,4	3,7	6,0	2,5 - 3,5
QL 3126	10,0	3,0	10,0	1,0 - 2,5
Untaped				
QL 3042	11,2	6,5	11,0	3,0 - 5,5
QL 3059	10,8	8,7	11,0	3,0 - 5,5
QL 3061	15,0	12,0	15,0	5,0 - 10,0

TIMBER ENTRY DOORS

Kerf-Slot	Dimensions (mm)			
	Groove		Rebate	Seal Gap
	Throat Width	Min. Depth		
QL 3073	4,0 - 5,0	7,5	13,0	5,0 - 8,0
QL 3078	3,0 - 3,3	6,0	10,5	4,0 - 7,5
QL 3091	4,0 - 5,0	7,5	15,0	4,0 - 8,0
QL 3093	2,7 - 3,0	7,0	13,0	4,0 - 8,0
QL 3094	2,7 - 3,2	6,5	10,0	3,0 - 6,0
QL 3095	3,5 - 4,0	6,5	10,0	3,0 - 6,0
QL 3096	4,0 - 5,0	7,5	12,0	3,0 - 6,0
QL 3097	4,0 - 5,0	7,5	18,0	3,5 - 6,0
QL 3098	3,0 - 4,0	7,5	14,0	3,0 - 6,0
QL 3099	3,0 - 3,3	6,0	10,5	4,0 - 7,5
QL 3102	3,7 - 4,2	7,0	11,0	5,0 - 7,5
QL 3104	4,0 - 5,0	7,5	12,0	5,0 - 9,0
QL 3109	4,0 - 5,0	7,0	18,0	5,0 - 9,0
QL 3118	3,0 - 3,3	7,0	9,0	3,0 - 7,5
QL 5694	2,7 - 3,0	6,0	10,0	6,0 - 11,0
QL 7000	2,7 - 3,0	6,0	10,0	4,0 - 10,8
QL 7066	2,7 - 3,0	6,0	10,0	4,8 - 7,7
QL 9111	3,0 - 3,3	6,0	12,0	4,8 - 7,9



TIMBER WINDOWS

Kerf-Slot	Dimensions (mm)			
	Groove		Rebate	Seal Gap
	Throat Width	Min. Depth		
Centre Seal				
QL 3053	4,0 - 5,0	7,5	12,0	4,5 - 6,0
QL 3063	4,0 - 5,0	7,5	12,0	5,5 - 7,5
QL 3067	4,0 - 5,0	7,5	12,0	4,0 - 6,0
QL 3068	3,4 - 4,2	6,5	11,0	4,5 - 6,5
QL 3072	2,7 - 3,2	6,5	10,0	2,7 - 4,3
QL 3076	3,0 - 3,5	6,0	10,0	3,0 - 6,0
QL 3079	3,2 - 4,0	6,5	10,0	2,7 - 4,3
QL 3101	2,7 - 3,2	7,0	13,0	3,5 - 6,0
QL 3111	3,5 - 4,0	7,0	12,0	3,5 - 4,0
QL 3136	2,7 - 3,2	6,5	11,5	4,0 - 6,5
QL 3140	4,0 - 5,0	7,5	15,0	4,0 - 6,5
QL 3141	2,7 - 3,2	5,5	12,0	4,0 - 6,5
QL 3147	3,0 - 3,5	6,0	10,0	3,0 - 6,0
Overlap Seal				
QL 3034	2,7 - 3,0	8,0	8,5	0,0 - 1,5
QL 3054	2,8 - 3,2	5,5	10,0	4,0 - 6,0
QL 3070	2,7 - 3,0	8,0	8,0	0,0 - 1,5
QL 3097	4,0 - 5,0	7,5	18,0	3,5 - 6,0
QL 3131	2,7 - 3,0	8,0	8,0	0,0 - 1,5
QL 3136	2,7 - 3,2	6,5	11,5	4,0 - 6,5
QL 3141	2,7 - 3,2	5,5	12,0	4,0 - 6,5
Frame Seal				
QL 3004	2,7 - 3,0	6,0	10,5	3,0 - 5,0
QL 3005	2,7 - 3,0	6,0	8,0	3,4 - 5,4
QL 3006	2,7 - 3,0	6,0	13,0	5,0 - 13,0
QL 3009	2,7 - 3,0	6,0	11,0	4,0 - 7,5
QL 3011	2,7 - 3,0	6,0	10,0	3,5 - 5,5
QL 3012	2,7 - 3,0	6,0	11,0	4,0 - 6,5
QL 3013	2,7 - 3,0	6,0	8,0	2,0 - 3,0
QL 3025	2,7 - 3,0	6,0	10,5	3,0 - 5,0
QL 3037	2,7 - 3,0	6,0	10,0	3,5 - 5,6
QL 3056	2,7 - 3,0	6,0	9,0	4,0 - 7,5
QL 3074	2,7 - 3,2	6,5	8,5	3,5 - 5,5
QL 3077	2,7 - 3,0	6,0	8,0	2,0 - 3,0
QL 3078	3,0 - 3,3	6,0	10,5	4,0 - 7,5
QL 3082	2,7 - 3,2	5,0	8,0	3,0 - 5,0
QL 3099	3,0 - 3,3	6,0	10,5	4,0 - 7,5
QL 3118	3,0 - 3,3	7,0	9,0	3,0 - 7,5
QL 3128	2,7 - 3,0	7,0	9,0	4,0 - 7,5
QL 3139	2,7 - 3,0	7,0	9,0	4,0 - 7,5
QL 3143	2,7 - 3,0	6,0	10,5	3,0 - 5,0
QL 5271	2,7 - 3,0	6,0	11,0	2,4 - 3,8
QL 5878	2,7 - 3,0	6,0	10,0	3,2 - 4,9
QL 9985	2,7 - 3,0	6,0	10,0	3,0 - 6,5

PVCu DOORS

Pocket-Slot	Application Dimensions (mm)	
	Slot	Seal Gap
	Throat Width	
QL 9710	3,3	3,0 - 5,5
QL 9756	3,3	1,0 - 4,8
QL 9898	3,2	3,0 - 5,5
QL 9926	3,2 - 3,4	3,0 - 7,5
QL 9928	3,2 - 3,4	3,0 - 7,5

PVCu WINDOWS

Pocket-Slot	Application Dimensions (mm)	
	Slot	Seal Gap
	Throat Width	
QL 4465	4,2	3,0 - 4,8
QL 5570	3,3	3,0 - 4,8
QL 5985	4,0	2,3 - 3,6
QL 6571	3,0	3,0 - 5,0
QL 6750	2,5	2,6 - 4,1
QL 6991	3,9	2,0 - 3,2
QL 7032	3,0	1,5 - 5,1
QL 7307	3,2	2,8 - 4,4
QL 9005	2,4	2,5 - 4,1
QL 9100	2,4	2,7 - 4,4
QL 9112	3,2	3,0 - 4,9
QL 9154	3,2	2,8 - 4,5
QL 9257	3,2	4,5 - 7,1
QL 9489	3,4	2,5 - 4,0
QL 9596	3,4	2,5 - 4,0
QL 9646	3,6	3,5 - 5,5
QL 9688	2,8	3,0 - 7,0
QL 9710	3,3	3,0 - 5,5
QL 9756	3,3	1,0 - 4,8
QL 9898	3,2	3,0 - 5,5
QL 9926	3,2 - 3,4	3,0 - 7,5
QL 9928	3,2 - 3,4	3,0 - 7,5



PVCu AND ALUMINIUM DOORS

Application Dimensions (mm)			
T-Slot	Groove		Seal Gap
	Throat Width	Min. Depth	
Type A (5,3 mm)			
QL 46105	3 - 3,2	2,3	5 - 5,5
QL 46800	2,6 - 3,2	2,3	3 - 3,5
QL 4870	3,2	2,3	2,5 - 4,0
QL 48100	3,2	2,3	5,5 - 7,0
QL 48447	3,2	2,3	2,5 - 7,0
QL 48700	3,2	2,3	2,5 - 6,0
QL 48800	3,2	2,3	2,5 - 7,0
QL 48950	3,2	2,3	4,0 - 6,5
Type C (7,5 mm)			
QL 6970	4,6	2,3	2,5 - 4,0
QL 69100	4,6	2,3	5,5 - 7,0
QL 69447	4,6	2,3	2,5 - 7,0
QL 69700	4,6	2,3	2,5 - 6,0
QL 69800	4,6	2,3	2,5 - 7,0
QL 69950	4,6	2,3	4,0 - 6,5

OTHER PVCu AND ALUMINIUM APPLICATIONS

Application Dimensions (mm)			
T-Slot	Groove		Seal Gap
	Throat Width	Depth	
Type A (5,3 mm)			
QL 4636	3,2	2,3	1,0 - 2,5
QL 4870	3,2	2,3	2,5 - 4,0
QL 48100	3,2	2,3	5,5 - 7,0
QL 48400	3,2	2,3	0,5 - 2,0
QL 48510	3,2	2,3	1,1 - 2,4
QL 48650	3,2	2,3	1,8 - 3,4
QL 48447	3,2	2,3	2,5 - 7,0
QL 48700	3,2	2,3	2,5 - 6,0
QL 48800	3,2	2,3	2,5 - 7,0
QL 48750	3,2	2,3	2,7 - 4,6
QL 48950	3,2	2,3	4,0 - 6,5
Type B (6,3 mm)			
QL 57700	3,8	2,3	2,3 - 4,0
Type B (6,3 mm)			
QL 6970	4,6	2,3	2,5 - 4,0
QL 69100	4,6	2,3	5,5 - 7,0
QL 69400	4,6	2,3	0,5 - 1,5
QL 69447	4,6	2,3	2,5 - 7,0
QL 69510	4,6	2,3	1,1 - 2,4
QL 69650	4,6	2,3	1,8 - 3,4
QL 69700	4,6	2,3	2,5 - 6,0
QL 69750	4,6	2,3	2,7 - 4,6
QL 69800	4,6	2,3	2,5 - 7,0
QL 69950	4,6	2,3	4,0 - 6,5



INTERNAL DOORS

Application Dimensions (mm)				
Kerf-Slot	Groove		Rebate	Seal Gap
	Throat Width	Min. Depth		
QL 50	2,7 - 3,0	6,0	10,0	3,0 - 5,0
QL 55	2,7 - 3,0	6,0	10,0	3,0 - 4,5
QL 60	2,7 - 3,0	6,0	10,0	3,0 - 4,5
QL 3037	2,7 - 3,0	6,0	10,0	3,5 - 5,6
QL 3056	2,7 - 3,0	6,0	9,0	4,0 - 7,5
QL 3072	2,7 - 3,2	6,5	10,0	2,7 - 4,3
QL 3091	4,0 - 5,0	7,5	15,0	4,0 - 8,0
QL 3094	2,7 - 3,2	6,5	10,0	3,0 - 6,0
QL 3100	3,5 - 4,0	6,5	12,0	4,0 - 7,5
QL 3106	3,5 - 4,0	6,5	12,0	3,0 - 5,0
QL 3110	3,5 - 4,0	6,5	12,0	3,5 - 4,0
QL 3113	3,5 - 4,0	7,0	12,0	4,0 - 7,5
QL 3138	2,7 - 3,2	6,0	8,0	3,0 - 4,5
QL 9985	2,7 - 3,0	6,0	10,0	3,0 - 6,5

FURNITURE

T-Slot	Application Dimensions (mm)		
	Groove		Seal Gap
	Throat Width	Depth	
QL 3006	2,7 - 3,0	6,0	5,0 - 13,0
QL 3009	2,7 - 3,0	6,0	4,0 - 7,5
QL 3011	2,7 - 3,0	6,0	3,5 - 5,5
QL 3012	2,7 - 3,0	6,0	4,0 - 6,5
QL 3013	2,7 - 3,0	6,0	2,0 - 3,0
QL 3034	2,7 - 3,0	8,0	0,0 - 1,5
QL 3037	2,7 - 3,0	6,0	3,5 - 5,6
QL 3070	2,7 - 3,0	8,0	0,0 - 1,5
QL 3072	2,7 - 3,2	6,5	2,7 - 4,3
QL 3073	4,0 - 5,0	7,5	5,0 - 8,0
QL 3074	2,7 - 3,2	6,5	3,5 - 5,5
QL 3077	2,7 - 3,0	6,0	2,0 - 3,0
QL 3078	3,0 - 3,3	6,0	4,0 - 7,5
QL 3079	3,2 - 4,0	6,5	2,7 - 4,3
QL 3091	4,0 - 5,0	7,5	4,0 - 8,0
QL 3093	2,7 - 3,0	7,0	4,0 - 8,0
QL 3094	2,7 - 3,2	6,5	3,0 - 6,0
QL 3095	3,5 - 4,0	6,5	3,0 - 6,0
QL 3096	4,0 - 5,0	7,5	3,0 - 6,0
QL 3098	3,0 - 4,0	7,5	3,0 - 6,0
QL 3099	3,0 - 3,3	6,0	4,0 - 7,5
QL 3100	3,5 - 4,0	6,5	4,0 - 7,5
QL 3102	3,7 - 4,2	7,0	5,0 - 7,5
QL 3104	4,0 - 5,0	7,5	5,0 - 9,0
QL 3106	3,5 - 4,0	6,5	3,0 - 5,0
QL 3109	4,0 - 5,0	7,0	5,0 - 9,0
QL 3110	3,5 - 4,0	6,5	3,5 - 4,0
QL 3113	3,5 - 4,0	7,0	4,0 - 7,5
QL 3118	3,0 - 3,3	7,0	3,0 - 7,5
QL 3128	2,7 - 3,0	7,0	4,0 - 7,5
QL 3131	2,7 - 3,0	8,0	0,0 - 1,5
QL 3138	2,7 - 3,2	6,0	3,0 - 4,5
QL 3139	2,7 - 3,0	7,0	4,0 - 7,5
QL 5626	2,7 - 3,0	6,0	4,7 - 7,5
QL 5694	2,7 - 3,0	6,0	6,0 - 11,0
QL 7000	2,7 - 3,0	6,0	4,0 - 10,8
QL 7066	2,7 - 3,0	6,0	4,8 - 7,7
QL 9111	3,0 - 3,3	6,0	4,8 - 7,9
QL 9985	2,7 - 3,0	6,0	3,0 - 6,5



Q-LON POLYURETHANE FOAM SEALS: CERTIFICATIONS

Q-LON

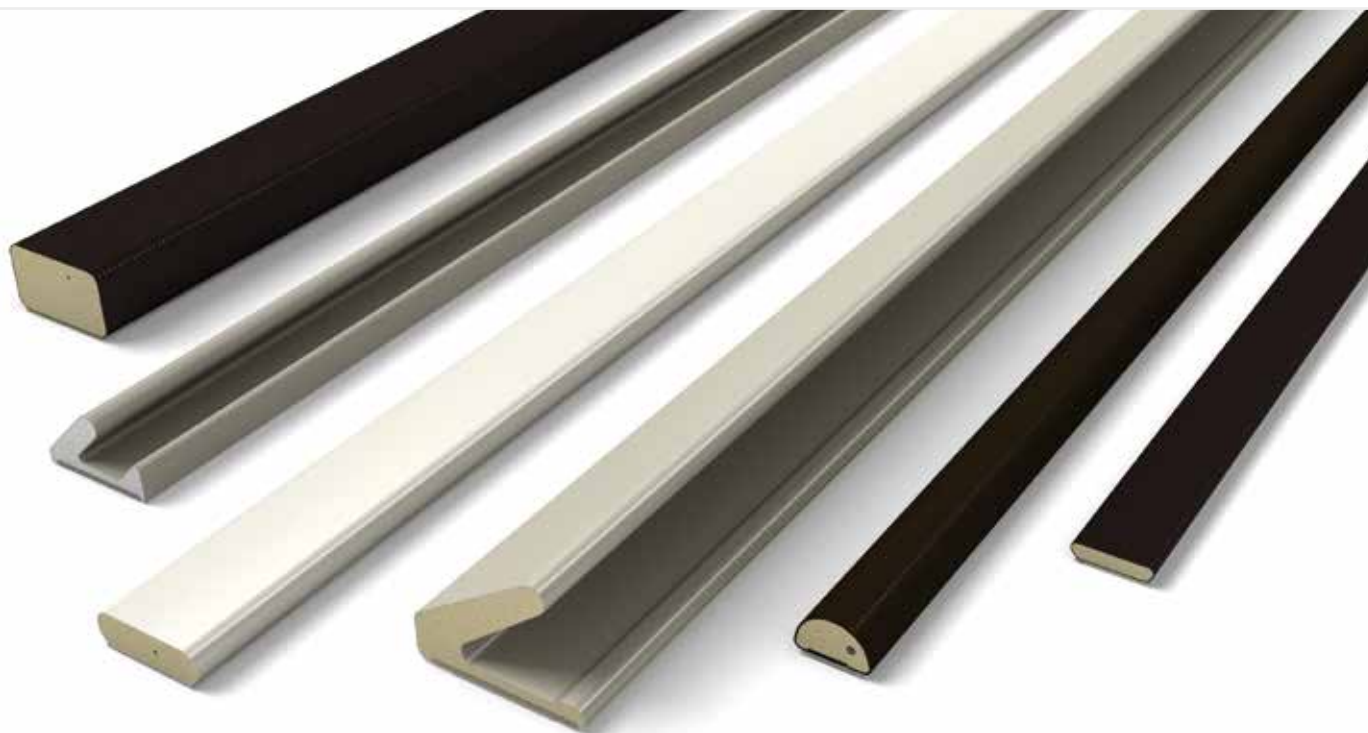
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QL 1032	X	X		
QL 3004	X	X		
QL 3005 / AQ 63	X	X		X
QL 3006	X	X		
QL 3009	X	X		
QL 3011	X	X		
QL 3012	X	X		
QL 3013 / AQ 48	X	X		X
QL 3015 / AQ 122	X	X		
QL 3020	X	X		
QL 3021	X			
QL 3025	X	X		
QL 3034	X	X		
QL 3037 / AQ 4846	X	X		
QL 3042	X	X		
QL 3053	X	X		X
QL 3054	X	X		
QL 3056	X	X		X
QL 3059	X	X		
QL 3061	X	X		
QL 3063	X	X		
QL 3067	X	X		
QL 3068	X	X		
QL 3070	X	X		
QL 3072	X	X		X
QL 3073	X	X		
QL 3074	X	X		
QL 3076	X	X		X
QL 3077		X		
QL 3078	X	X		X
QL 3079	X	X		
QL 3082	X	X		X
QL 3091	X			X
QL 3093	X	X		
QL 3094	X	X		X
QL 3095	X	X		
QL 3096	X	X		X
QL 3097	X	X		
QL 3098	X	X		

Code	Certification			
	EN 12365	KOMO	SKZ	Sintef
QL 3099	X	X		
QL 3101	X	X		
QL 3102	X	X		
QL 3103	X	X		
QL 3104	X	X		X
QL 3105	X			
QL 3106	X	X		
QL 3109	X	X		
QL 3110	X			
QL 3111	X	X		
QL 3113		X		
QL 3116	X	X		
QL 3117	X	X		
QL 3118	X	X		X
QL 3121	X	X		
QL 3122	X	X		
QL 3124	X	X		
QL 3126	X	X		
QL 3128	X	X		X
QL 3130	X	X		
QL 3131	X	X		
QL 3138	X			
QL 3139	X	X		
QL 3140	X	X		
QL 3141	X	X		
QL 3143	X	X		X
QL 3147	X	X		X
QL 3150	X	X		
QL 3151	X	X		
QL 3152	X			
QL 4465	X	X	X1	
QL 45	X	X	X1	
QL 46105	X		X1	
QL 46800	X		X1	
QL 48400	X	X	X1	
QL 48447	X	X	X1	
QL 48510	X	X	X1	
QL 48650	X	X	X1	
QL 4870	X	x	X1	
QL 48700	X	X	X1	

Code	Certification			
	EN 12365	KOMO	SKZ	Sintef
QL 48750	X	X	X1	
QL 48800	X	X	X1	
QL 48950	X	X	X1	
QL 50	X	X		
QL 5271	X	X		
QL 55	X	X		
QL 5570	X	X	X1	X
QL 5626	X	X		
QL 5694	X	X		
QL 57700	X	X	X1	
QL 5878	X	X	X1	
QL 5985	X	X	X1	
QL 60	X	X		
QL 6571	X	X	X1	
QL 6750	X	X	X1	
QL 69400	X	X	X1	
QL 69447	X	X	X1	
QL 69510	X	X	X1	
QL 69650	X	X	X1	
QL 69700	X	X	X1	
QL 69750	X	X	X1	
QL 69800	X	X	X1	
QL 6991	X	X	X1	
QL 69950	X	X	X1	
QL 7000	X	X		
QL 7032	X	X	X1	
QL 7066	X	X	X1	
QL 7307	X	X	X1	
QL 836	X	X	X1	
QL 9005	X	X	X1	
QL 9100	X	X	X1	
QL 9111	X	X		
QL 9112	X	X	X1	
QL 9154	X	X	X1	
QL 9257	X	X	X1	
QL 9489	X	X		X
QL 9536	X	X	X1	
QL 9596	X	X	X1	
QL 9646	X	X	X1	X
QL 9608	X	X	X1	

Code	Certification			
	EN 12365	KOMO	SKZ	Sintef
QL 9613	X	X	X1	
QL 9688	X	X	X1	
QL 9710	X	X	X1	
QL 9756	X	X	X1	
QL 9898	X	X	X1	
QL 9926	X	X	X1	
QL 9928	X	X	X1	
QL 9985	X	X		





Q-LON POLYURETHANE FOAM SEALS: FOR UNIVERSAL SURFACE FITTING

- Universal – direct application on a flat surface
- Fixing with pre-applied adhesive tape
- Alternatively it can be fixed with adhesive tape, hot melt glue or staples
- Available colours: white, black, bronze and grey.

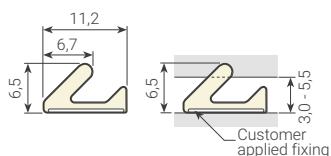
Other colours available on request

FOR UNIVERSAL SURFACE FITTING

2Q098
QL 3042
UNTAPED

Width: 11,2
Height: 6,5
Rebate: 11,0
Seal gap: 3,0 - 5,5
Packaging: 400 m x 2

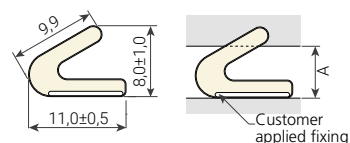
W24276



2Q119
QL 3059
UNTAPED

Width: 10,8
Height: 8,7
Rebate: 11,0
Seal gap: 3,0 - 5,5
Packaging: 300 m x 2

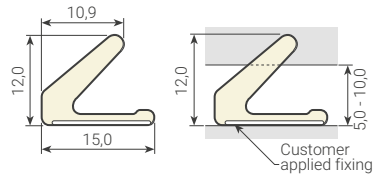
W33266



2Q140
QL 3061
UNTAPED

Width: 15,0
Height: 12,0
Rebate: 15,0
Seal gap: 5,0 - 10,0
Packaging: 250 m x 2

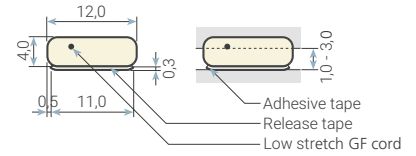
W33266



2Q000
QL 1026
TAPED

Width: 12,0
Height: 4,0
Rebate: 12,0
Seal gap: 1,0 - 3,0
Packaging: 250 m x 2 / 500 m x 2

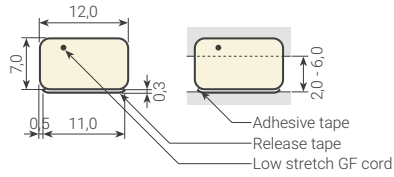
W26276



2Q007
QL 1032
TAPED

Width: 12,0
Height: 7,0
Rebate: 12,0
Seal gap: 2,0 - 6,0
Packaging: 250 m x 2 / 500 m x 2

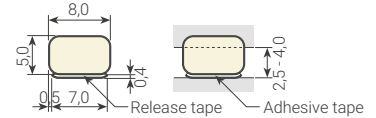
W35276



2Q063
QL 3015
TAPED

Width: 8,0
Height: 5,0
Rebate: 8,0
Seal gap: 2,5 - 4,0
Packaging: 500 m x 2

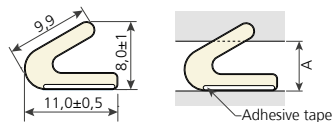
W25276



2Q357
QL 3116
TAPED

Width: 10,8
Height: 8,7
Rebate: 11,0
Seal gap: 3,0 - 5,5
Packaging: 300 m x 2

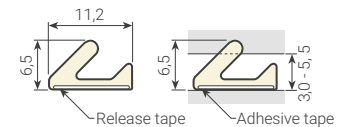
W34266



2Q364
QL 3117
TAPED

Width: 11,2
Height: 6,5
Rebate: 11,0
Seal gap: 3,0 - 5,5
Packaging: 400 m x 2

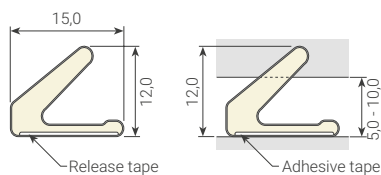
W23266



2Q231
QL 3121
TAPED

Width: 15,0
Height: 12,0
Rebate: 15,0
Seal gap: 5,0 - 10,0
Packaging: 225 m x 2

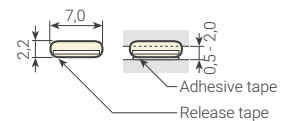
W32266



2Q231
QL 3122
TAPED

Width: 7,0
Height: 2,2
Rebate: 7,0
Seal gap: 0,5 - 2,0
Packaging: 200 m x 2

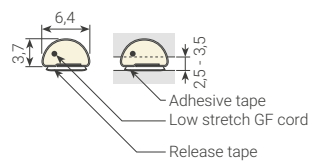
W17276



2Q4062
QL 3124
TAPED

Width: 6,4
Height: 3,7
Rebate: 6,0
Seal gap: 2,5 - 3,5
Packaging: 1000 m x 2

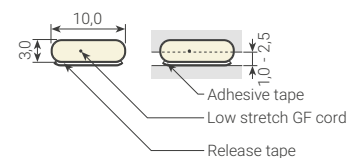
W16276



2Q4132
QL 3126
TAPED

Width: 10,0
Height: 3,0
Rebate: 10,0
Seal gap: 1,0 - 2,5
Packaging: 700 m x 2

W17276





Q-LON POLYURETHANE FOAM SEALS: FOR TIMBER WINDOW AND ENTRY DOOR APPLICATIONS

- Efficient processing – right from the coil, no waste
- Suitable for automatic insertion or fixing
- Available colours: white, black, bronze and grey.

Other colours available on request



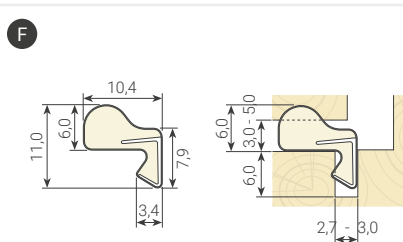
FOR TIMBER APPLICATIONS

O Suitable for overlap seal **F** Suitable for frame seal **S** Suitable for sash seal

2Q014
QL 3004
WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,5
Seal gap: 3,0 - 5,0
Packaging: 350 m x 2

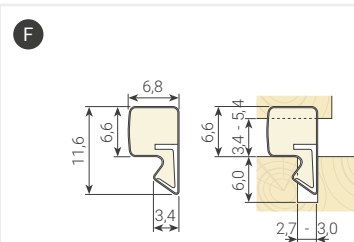
W26276



2Q0212
QL 3005
WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 8,0
Seal gap: 3,4 - 5,4
Packaging: 300 m x 2

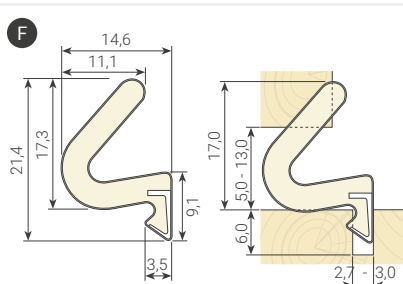
W35266



2Q028
QL 3006
WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 13,0
Seal gap: 5,0 - 13,0
Packaging: 2,1 m x 150

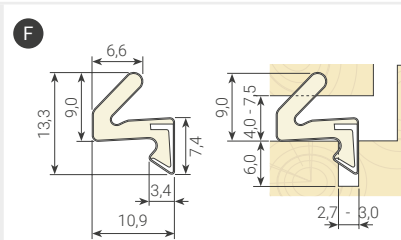
W62276



2Q035
QL 3009
ENTRY DOORS /
WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 11,0
Seal gap: 4,0 - 7,5
Packaging: 250 m x 2

W32266



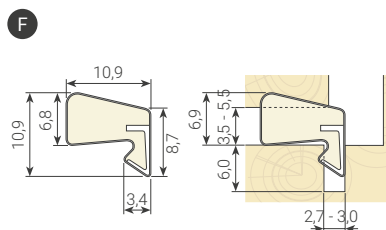
FOR TIMBER APPLICATIONS

C Suitable for centre seal **O** Suitable for overlap seal **F** Suitable for frame seal **S** Suitable for sash seal

2Q042 QL 3011 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,5 - 5,5
Packaging: 250 m x 2

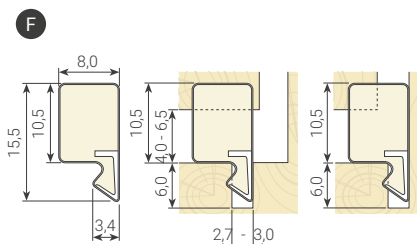
W35276



2Q049 QL 3012 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 11,0
Seal gap: 4,0 - 6,5
Packaging: 200 m x 2

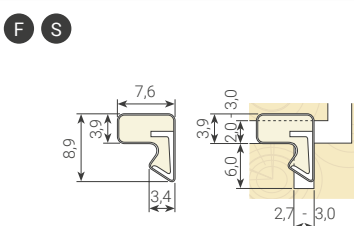
W45276



2Q210 QL 3013 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 8,0
Seal gap: 2,0 - 3,0
Packaging: 500 m x 2

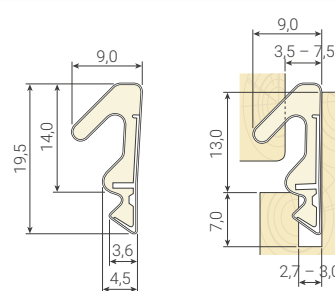
W15276



2Q035 QL 3020 ENTRY DOORS

Groove width: 2,7 - 3,0
Min. groove depth: 7,0
Rebate: 13,0
Seal gap: 3,5 - 7,5
Packaging: 125 m x 2

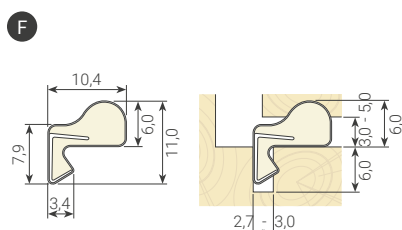
W44266



2Q014 QL 3025 (QL 3004 RV) WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,5
Seal gap: 3,0 - 5,0
Packaging: 350 m x 2

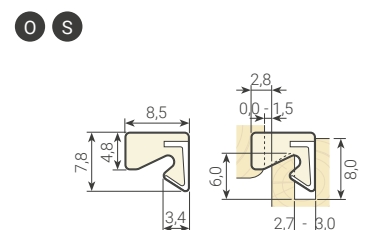
W25266



2Q084 QL 3034 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 8,0
Rebate: 8,5
Seal gap: 0,0 - 1,5
Packaging: 400 m x 2

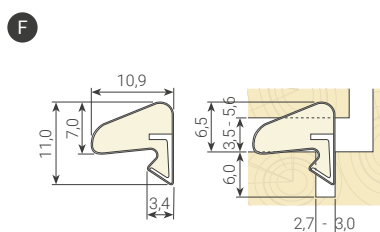
W36276



2Q091 QL 3037 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,5 - 5,6
Packaging: 200 m x 2

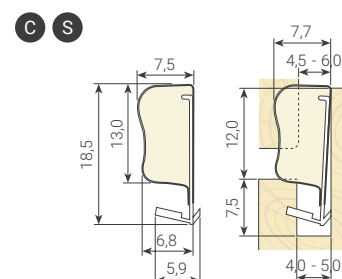
W35266



2Q105 QL 3053 ENTRY DOORS / WINDOWS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 12,0
Seal gap: 4,5 - 6,0
Packaging: 200 m x 2

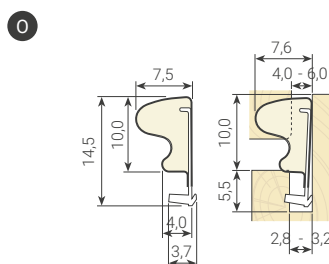
W35266



2Q112 QL 3054 WINDOWS

Groove width: 2,8 - 3,2
Min. groove depth: 5,5
Rebate: 10,0
Seal gap: 4,0 - 6,0
Packaging: 250 m x 2

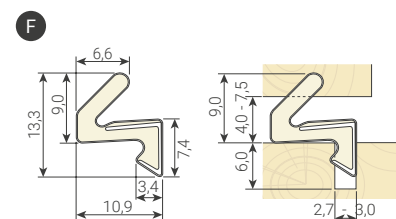
W35276



2Q056 QL 3056 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 9,0
Seal gap: 4,0 - 7,5
Packaging: 300 m x 2

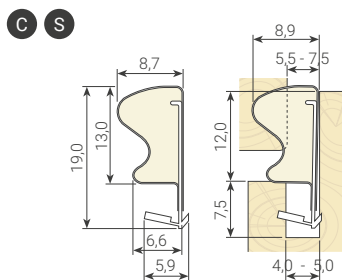
W35276



2Q147
QL 3063
WINDOWS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 12,0
Seal gap: 5,5 - 7,5
Packaging: 200 m x 2

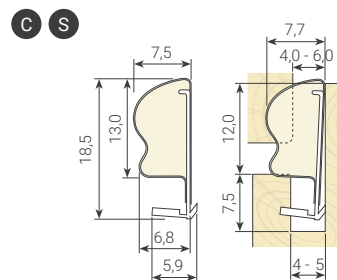
W36266



2Q161
QL 3067
WINDOWS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 12,0
Seal gap: 4,0 - 6,0
Packaging: 200 m x 2

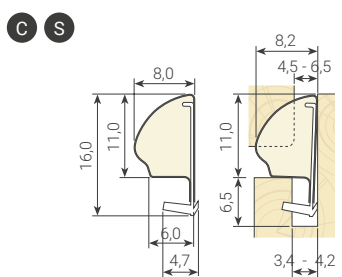
W25266



2Q168
QL 3068
WINDOWS

Groove width: 3,4 - 4,2
Min. groove depth: 6,5
Rebate: 11,0
Seal gap: 4,5 - 6,5
Packaging: 200 m x 2

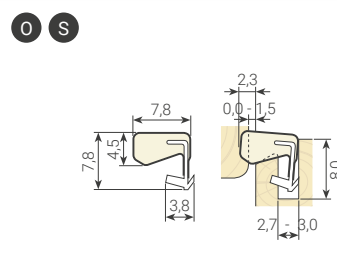
W35275



2Q175
QL 3070
WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 8,0
Rebate: 8,0
Seal gap: 0,0 - 1,5
Packaging: 400 m x 2

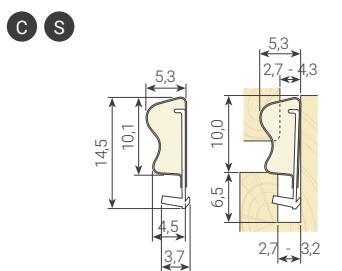
W25266



2Q182
QL 3072
WINDOWS

Groove width: 2,7 - 3,2
Min. groove depth: 6,5
Rebate: 10,0
Seal gap: 2,7 - 4,3
Packaging: 300 m x 2

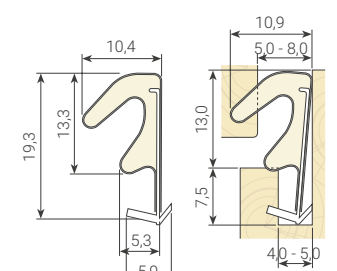
W24265



2Q189
QL 3073
ENTRY DOORS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 13,0
Seal gap: 5,0 - 8,0
Packaging: 150 m x 2

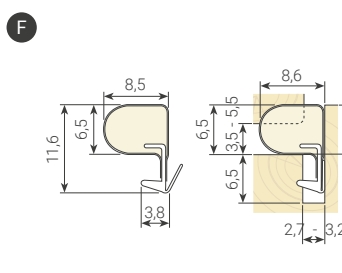
W344275



2Q196
QL 3074
WINDOWS

Groove width: 2,7 - 3,2
Min. groove depth: 6,5
Rebate: 8,5
Seal gap: 3,5 - 5,5
Packaging: 300 m x 2

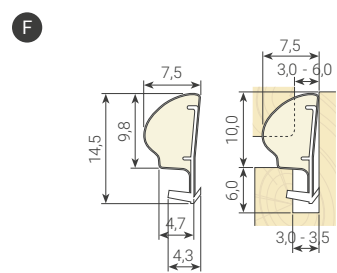
W26276



2Q203
QL 3076
WINDOWS

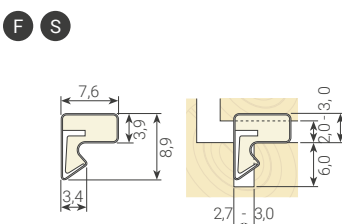
Groove width: 3,0 - 3,5
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,0 - 6,0
Packaging: 250 m x 2

W34266



2Q210
QL 3077
(QL 3013 RV)
WINDOWS

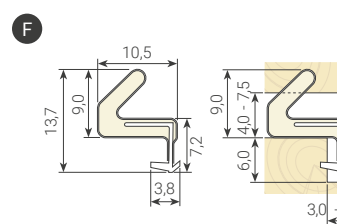
Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 8,0
Seal gap: 2,0 - 3,0
Packaging: 500 m x 2



2Q217
QL 3078
ENTRY DOORS / WINDOWS

Groove width: 3,0 - 3,3
Min. groove depth: 6,0
Rebate: 10,5
Seal gap: 4,0 - 7,5
Packaging: 250 m x 2
300 m x 2

W33266



FOR TIMBER APPLICATIONS

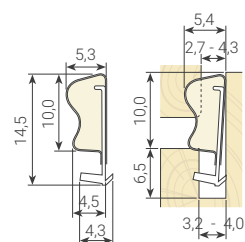
C Suitable for centre seal **O** Suitable for overlap seal **F** Suitable for frame seal **S** Suitable for sash seal

2Q224 QL 3079 ENTRY DOORS / WINDOWS

Groove width: 3,2 - 4,0
Min. groove depth: 6,5
Rebate: 10,0
Seal gap: 2,7 - 4,3
Packaging: 300 m x 2

W24266

F **S**

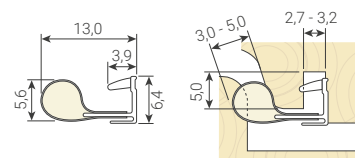


2Q308 QL 3082 WINDOWS

Groove width: 2,7 - 3,2
Min. groove depth: 5,0
Rebate: 8,0
Seal gap: 3,0 - 5,0
Packaging: 250 m x 2

W35275

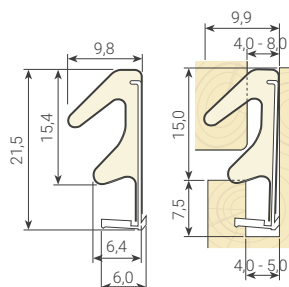
F



2Q231 QL 3091 ENTRY DOORS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 15,0
Seal gap: 4,0 - 8,0
Packaging: 150 m x 2
400 m x 1

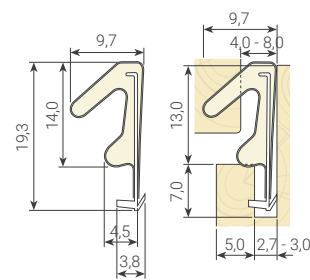
W44265



2Q238 QL 3093 ENTRY DOORS

Groove width: 2,7 - 3,0
Min. groove depth: 7,0
Rebate: 13,0
Seal gap: 4,0 - 8,0
Packaging: 150 m x 2
400 m x 1

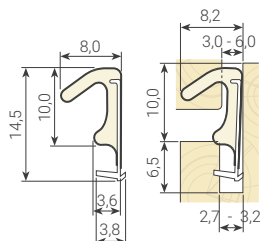
W44266



2Q245 QL 3094 ENTRY DOORS

Groove width: 2,7 - 3,2
Min. groove depth: 6,5
Rebate: 10,0
Seal gap: 3,0 - 6,0
Packaging: 250 m x 2

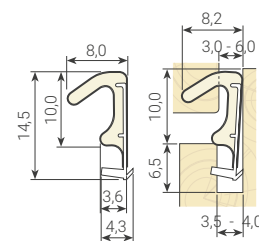
W32265



2Q252 QL 3095 ENTRY DOORS

Groove width: 3,5 - 4,0
Min. groove depth: 6,5
Rebate: 10,0
Seal gap: 3,0 - 6,0
Packaging: 250 m x 2

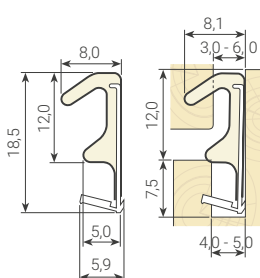
W32275



2Q259 QL 3096 ENTRY DOORS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 12,0
Seal gap: 3,0 - 6,0
Packaging: 200 m x 2

W35265

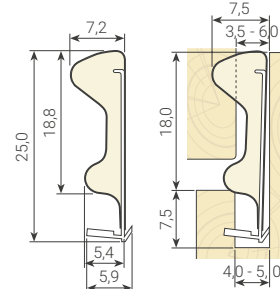


2Q266 QL 3097 ENTRY DOORS / WINDOWS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 18,0
Seal gap: 3,5 - 6,0
Packaging: 150 m x 2

W35266

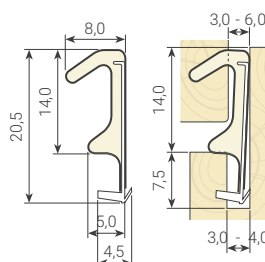
O



2Q273 QL 3098 ENTRY DOORS

Groove width: 3,0 - 4,0
Min. groove depth: 7,5
Rebate: 14,0
Seal gap: 3,0 - 6,0
Packaging: 150 m x 2

W33266

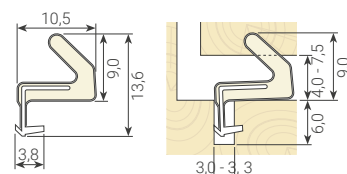


QL 3099 (QL 3078 RV) ENTRY DOORS / WINDOWS

Groove width: 3,0 - 3,3
Min. groove depth: 6,0
Rebate: 10,5
Seal gap: 4,0 - 7,5
Packaging: 250 m x 2
300 m x 2

W33266

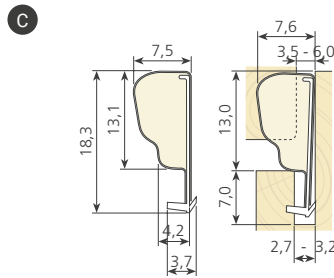
F



2Q021
QL 3101
WINDOWS

Groove width: 2,7 - 3,2
Min. groove depth: 7,0
Rebate: 13,0
Seal gap: 3,5 - 6,0
Packaging: 200 m x 2

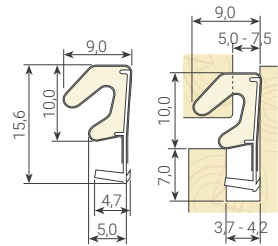
W35276



2Q294
QL 3102
ENTRY DOORS

Groove width: 3,7 - 4,2
Min. groove depth: 7,0
Rebate: 11,0
Seal gap: 5,0 - 7,5
Packaging: 200 m x 2

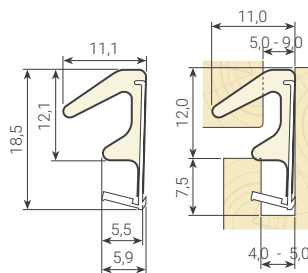
W33266



2Q308
QL 3104
ENTRY DOORS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 12,0
Seal gap: 5,0 - 9,0
Packaging: 200 m x 2

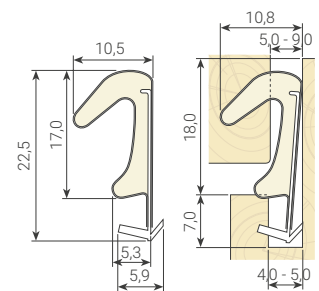
W44275



2Q322
QL 3109
ENTRY DOORS

Groove width: 4,0 - 5,0
Min. groove depth: 7,0
Rebate: 18,0
Seal gap: 5,0 - 9,0
Packaging: 100 m x 2

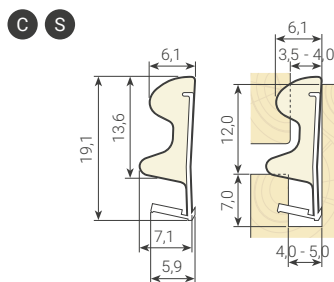
W43276



2Q336
QL 3111
WINDOWS

Groove width: 3,5 - 4,0
Min. groove depth: 7,0
Rebate: 12,0
Seal gap: 3,5 - 4,0
Packaging: 200 m x 2

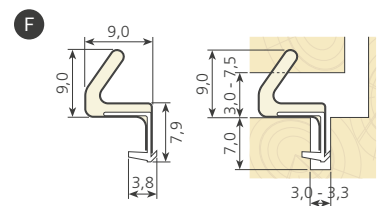
W35256



2Q371
QL 3118
ENTRY DOORS / WINDOWS

Groove width: 3,0 - 3,3
Min. groove depth: 7,0
Rebate: 9,0
Seal gap: 3,0 - 7,5
Packaging: 300 m x 2

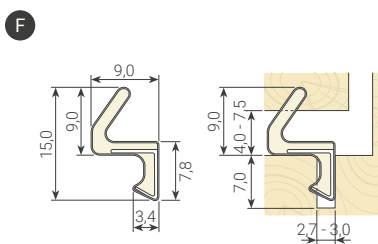
W31276



2Q420
QL 3128
WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 7,0
Rebate: 9,0
Seal gap: 4,0 - 7,5
Packaging: 300 m x 2

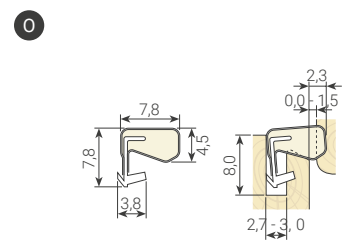
W32265



2Q427
QL 3131 (QL 3070 RV)
WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 8,0
Rebate: 8,0
Seal gap: 0,0 - 1,5
Packaging: 400 m x 2

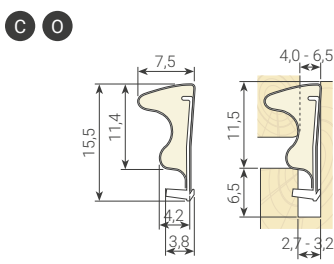
W25266



QL 3136
WINDOWS

Groove width: 2,7 - 3,2
Min. groove depth: 6,5
Rebate: 11,5
Seal gap: 4,0 - 6,5
Packaging: 200 m x 2

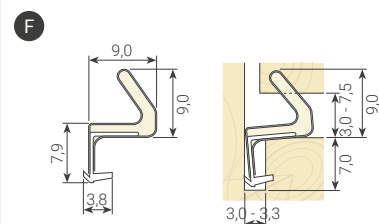
W62276



QL 3139 (QL 3118 RV)
WINDOWS

Groove width: 3,0 - 3,3
Min. groove depth: 7,0
Rebate: 9,0
Seal gap: 3,0 - 7,5
Packaging: 300 m x 2

W31276



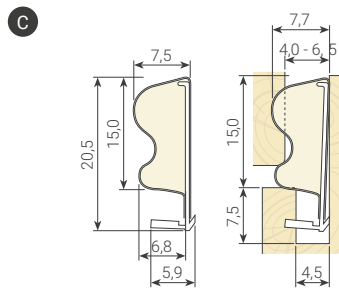
FOR TIMBER APPLICATIONS

C Suitable for centre seal **O** Suitable for overlap seal **F** Suitable for frame seal **S** Suitable for sash seal

2Q476 QL 3140 WINDOWS

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Rebate: 15,0
Seal gap: 4,0 - 6,5
Packaging: 200 m x 2

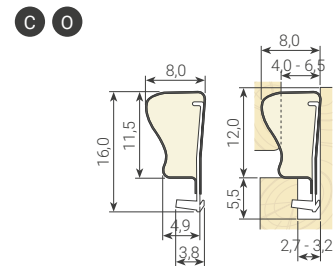
W35266



2Q483 QL 3141 WINDOWS

Groove width: 2,7 - 3,2
Min. groove depth: 5,5
Rebate: 12,0
Seal gap: 4,0 - 6,5
Packaging: 300 m x 2

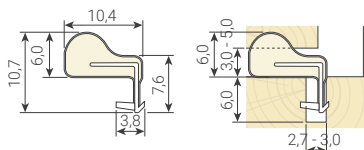
W35255



2Q490 QL 3143 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,5
Seal gap: 3,0 - 5,0
Packaging: 350 m x 2

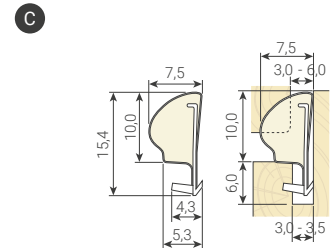
W26275



QL 3147 (QL 3076 RV) WINDOWS

Groove width: 3,0 - 3,5
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,0 - 6,0
Packaging: 250 m x 2

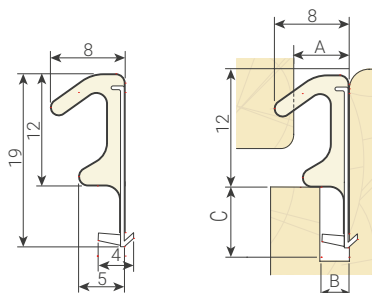
W34266



2Q500 QL 3150

Groove width: 3,0
Min. groove depth: 6,5
Rebate: 12,0
Seal gap: 3,5 - 6,0
Packaging: 200 m x 2

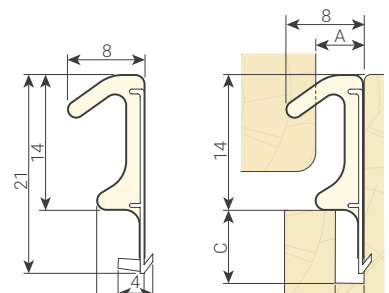
W33266



2Q502 QL 3152

Groove width: 3,0
Min. groove depth: 6,5
Rebate: 14/15
Seal gap: 3,5 - 6,0
Packaging: 150 m x 2

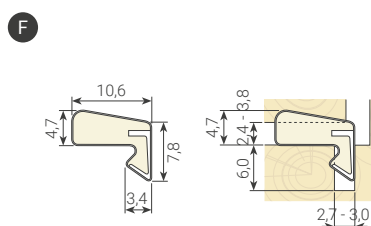
W33266



2Q588 QL 5271 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 11,0
Seal gap: 2,4 - 3,8
Packaging: 250 m x 2

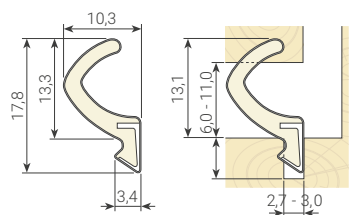
W25266



2Q616 QL 5694 ENTRY DOORS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 6,0 - 11,0
Packaging: 200 m x 2

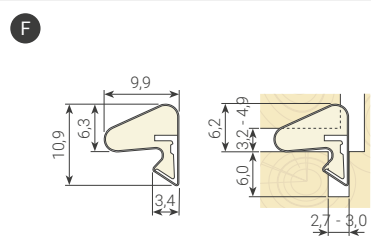
W43266



2Q630 QL 5878 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,2 - 4,9
Packaging: 250 m x 2

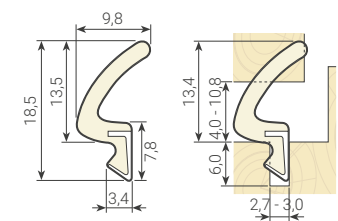
W25246



2Q749 QL 7000 ENTRY DOORS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 13,0
Seal gap: 4,0 - 10,8
Packaging: 175 m x 2

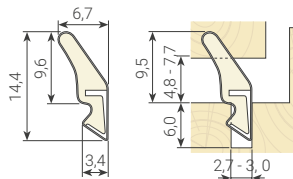
W52266



2Q763
QL 7066
ENTRY DOORS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 4,8 - 7,7
Packaging: 400 m x 2

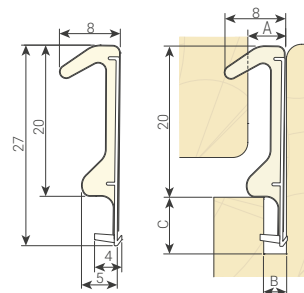
W33266



2Q288
QL 9608

Groove width: 3,0
Min. groove depth: 6,5
Rebate: 20,0
Seal gap: 4,0 - 7,0
Packaging: 150 m x 2

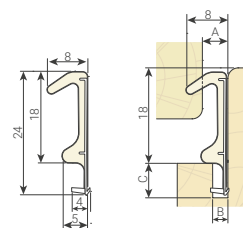
W33276



2Q644
QL 9613

Groove width: 3,0
Min. groove depth: 6,5
Rebate: 18,0
Seal gap: 4,0 - 7,0
Packaging: 150 m x 2

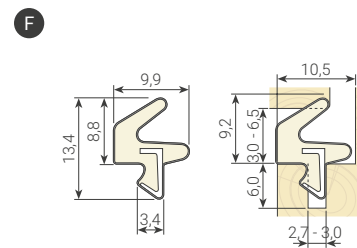
W33276



2Q959
QL 9985
WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,0 - 6,5
Packaging: 250 m x 2

W35276



Q-LON





Q-LON POLYURETHANE FOAM SEALS:

FOR PVCu WINDOW AND DOOR
AND WINDOW COVERING
PRODUCT APPLICATIONS

- Quick processing without corner cutting
- Not siliconised, neutral smell and no discolouration
- Low closing forces – low friction
- Available colours: white, black and grey. Other colours available on request

The variety of flexible shapes and different colours makes these Q-Lon profiles particularly suited for sealing applications in window covering products such as roller shutters and screens. Fitted into PVCu profiles, Q-Lon polyurethane foam seals generate noise dampening effects and help to minimise light and air leaks.

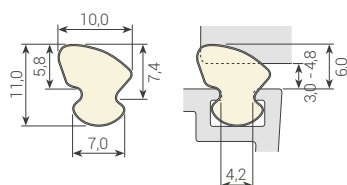


FOR PVCu APPLICATIONS

2Q505
QL 4465
DOORS / WINDOWS
POCKET-SLOT

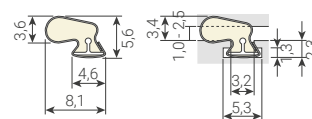
Throat width: 4,2
Min. groove depth: 5,7
Seal gap: 3,0 - 4,8
Packaging: 250 m x 2

W25266



2Q512
QL 4636
WINDOWS
T-SLOT
TYPE A (5,3 MM)

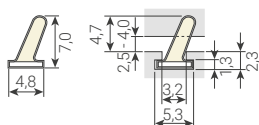
Retention slot throat: 3,2
Min. slot depth: 2,3
Seal gap: 1,0 - 2,5
Packaging: 300 m x 2



2Q517
QL 4870
DOORS / WINDOWS
T-SLOT
TYPE A (5,3 MM)

Retention slot throat: 3,2
Min. slot depth: 2,3
Seal gap: 2,5 - 4,0
Packaging: 250 m x 2

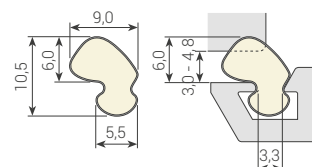
W25266



2Q602
QL 5570
WINDOWS
POCKET-SLOT

Throat width: 3,3
Min. groove depth: 5,5
Seal gap: 3,0 - 4,8
Packaging: 250 m x 2

W24266

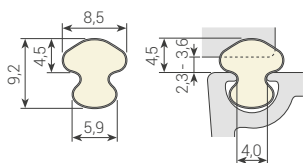


FOR PVCu APPLICATIONS

2Q637
QL 5985
WINDOWS
POCKET-SLOT

Throat width: 4,0
Min. groove depth: 5,2
Seal gap: 2,3 - 3,6
Packaging: 250 m x 2

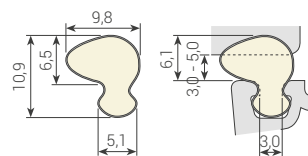
W24276



2Q680
QL 6571
WINDOWS
POCKET-SLOT

Throat width: 3,0
Min. groove depth: 4,9
Seal gap: 3,0 - 5,0
Packaging: 250 m x 2

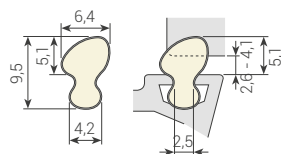
W35266



2Q687
QL 6750
WINDOWS
POCKET-SLOT

Throat width: 2,5
Min. groove depth: 4,9
Seal gap: 2,6 - 4,1
Packaging: 300 m x 2

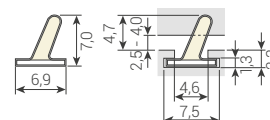
W34266



2Q693
QL 6970
DOORS / WINDOWS
T-SLOT
TYPE C (7,5 MM)

Retention slot throat: 4,6
Min. slot depth: 2,3
Seal gap: 2,5 - 4,0
Packaging: 250 m x 2

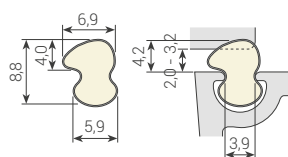
W25266



2Q735
QL 6991
WINDOWS POCKET-SLOT

Throat width: 3,9
Min. groove depth: 5,3
Seal gap: 2,0 - 3,2
Packaging: 300 m x 2

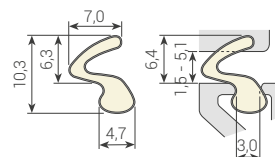
W25266



2Q756
QL 7032
DOORS / WINDOWS
POCKET-SLOT

Throat width: 3,0
Min. groove depth: 4,5
Seal gap: 1,5 - 5,1
Packaging: 200 m x 2

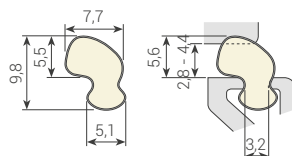
W34266



2Q770
QL 7307
WINDOWS
POCKET-SLOT

Throat width: 3,2
Min. groove depth: 4,8
Seal gap: 2,8 - 4,4
Packaging: 250 m x 2

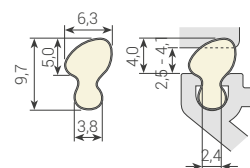
W35276



2Q785
QL 9005
WINDOWS
POCKET-SLOT

Throat width: 2,4
Min. groove depth: 5,2
Seal gap: 2,5 - 4,1
Packaging: 300 m x 2

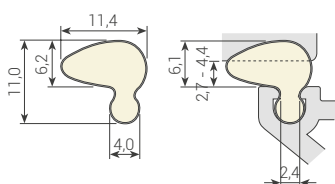
W24266



2Q791
QL 9100
WINDOWS
POCKET-SLOT

Throat width: 2,4
Min. groove depth: 5,3
Seal gap: 2,7 - 4,4
Packaging: 250 m x 2

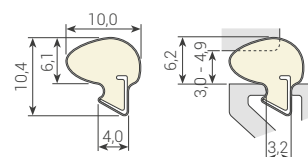
W35276



2Q819
QL 9112
WINDOWS
POCKET-SLOT

Throat width: 3,2
Min. groove depth: 4,8
Seal gap: 3,0 - 4,9
Packaging: 300 m x 2

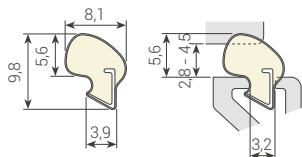
W35276



2Q834
QL 9154
WINDOWS POCKET-SLOT

Throat width: 3,2
Min. groove depth: 4,7
Seal gap: 2,8 - 4,5
Packaging: 300 m x 2

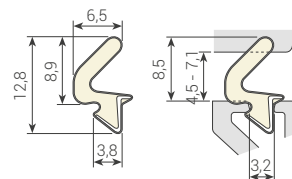
W35266



2Q842
QL 9257
DOORS / WINDOWS
POCKET-SLOT

Throat width: 3,2
Min. groove depth: 4,4
Seal gap: 4,5 - 7,1
Packaging: 300 m x 2

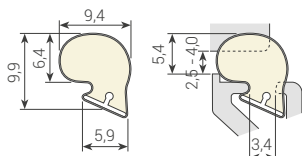
W33276



2Q855
QL 9489
DOORS / WINDOWS
POCKET-SLOT

Throat width: 3,4
Min. groove depth: 4,0
Seal gap: 2,5 - 4,0
Packaging: 250 m x 2

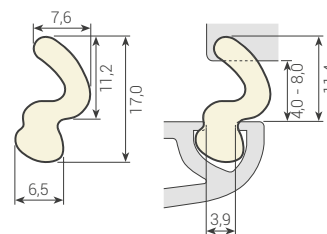
W26276



2Q861
QL 9536
DOORS
POCKET-SLOT

Throat width: 3,9
Min. groove depth: 6,3
Seal gap: 4,0 - 8,0
Packaging: 250 m x 2

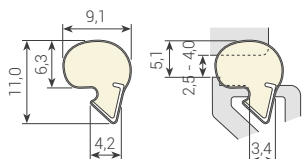
W43276



2Q873
QL 9596
WINDOWS
POCKET-SLOT

Throat width: 3,4
Min. groove depth: 5,2
Seal gap: 2,5 - 4,0
Packaging: 300 m x 2

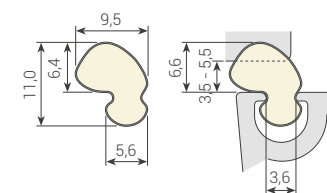
W26276



2Q878
QL 9646
WINDOWS
POCKET-SLOT

Throat width: 3,6
Min. groove depth: 5,1
Seal gap: 3,5 - 5,5
Packaging: 250 m x 2

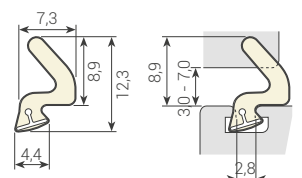
W35276



2Q882
QL 9688
DOORS / WINDOWS
POCKET-SLOT

Throat width: 2,8
Min. groove depth: 3,9
Seal gap: 3,0 - 7,0
Packaging: 400 m x 2

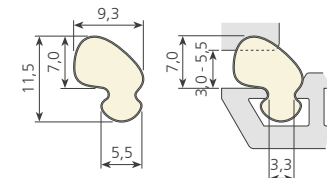
W33276



2Q891
QL 9710
WINDOWS
POCKET-SLOT

Throat width: 3,3
Min. groove depth: 5,0
Seal gap: 3,0 - 5,5
Packaging: 300 m x 2

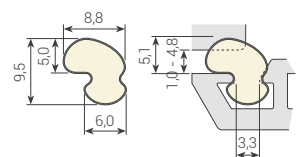
W35266



2Q898
QL 9756
WINDOWS
POCKET-SLOT

Throat width: 3,3
Min. groove depth: 5,0
Seal gap: 1,0 - 4,8
Packaging: 300 m x 2

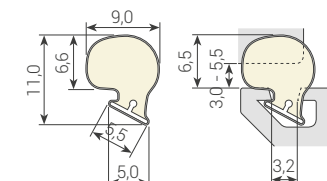
W25276



2Q911
QL 9898
WINDOWS POCKET-SLOT

Throat width: 3,2
Min. groove depth: 4,9
Seal gap: 3,0 - 5,5
Packaging: 300 m x 2

W35276

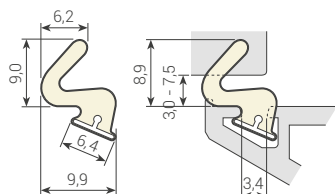


FOR PVCu APPLICATIONS

2Q931 QL 9926 DOORS / WINDOWS POCKET-SLOT

Throat width: 3,2 - 3,4
Min. groove depth: 5,0
Seal gap: 3,0 - 7,5
Packaging: 300 m x 2

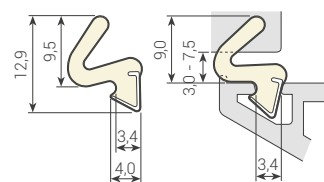
W33276



2Q940 QL 9928 DOORS / WINDOWS POCKET-SLOT

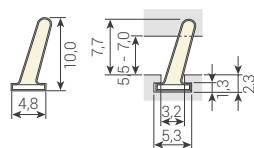
Throat width: 3,2 - 3,4
Min. groove depth: 3,9
Seal gap: 3,0 - 7,5
Packaging: 300 m x 2

W34276



2Q516 QL 48100 DOORS / WINDOWS T-SLOT TYPE A (5,3 MM)

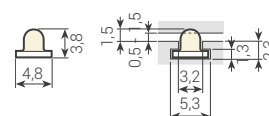
Retention slot throat: 3,2
Min. slot depth: 2,3
Seal gap: 5,5 - 7,0
Packaging: 250 m x 2



2Q518 QL 48400 WINDOWS T-SLOT TYPE A (5,3 MM)

Throat width: 3,2
Groove depth: 2,3
Seal gap: 0,5 - 1,5
Packaging: 200 m x 2
700 m x 2
900 m x 2

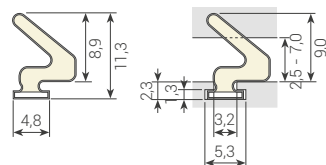
W16266



2Q525 QL 48447 DOORS / WINDOWS T-SLOT TYPE A (5,3 MM)

Throat width: 3,2
Groove depth: 2,3
Seal gap: 2,5 - 7,0
Packaging: 250 m x 2

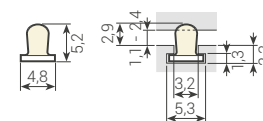
W33266



2Q532 QL 48510 WINDOWS T-SLOT TYPE A (5,3 MM)

Throat width: 3,2
Groove depth: 2,3
Seal gap: 1,1 - 2,4
Packaging: 200 m x 2
500 m x 2
900 m x 2

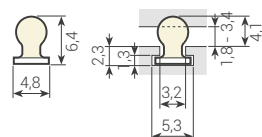
W15256



2Q539 QL 48650 WINDOWS T-SLOT TYPE A (5,3 MM)

Throat width: 3,2
Groove depth: 2,3
Seal gap: 1,8 - 3,4
Packaging: 200 m x 2
500 m x 2
800 m x 2

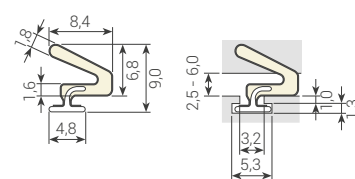
W25256



2Q546 QL 48700 DOORS / WINDOWS T-SLOT TYPE A (5,3 MM)

Throat width: 3,2
Groove depth: 2,3
Seal gap: 2,5 - 6,0
Packaging: 250 m x 2

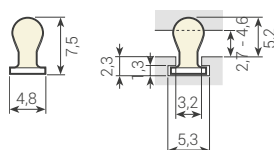
W33276



2Q553 QL 48750 WINDOWS T-SLOT TYPE A (5,3 MM)

Throat width: 3,2
Groove depth: 2,3
Seal gap: 2,7 - 4,6
Packaging: 200 m x 2
600 m x 2

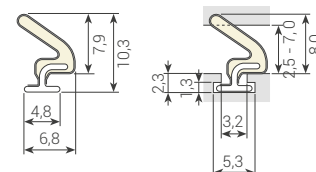
W25266



2Q560 QL 48800 DOORS / WINDOWS T-SLOT TYPE A (5,3 MM)

Throat width: 3,2
Groove depth: 2,3
Seal gap: 2,5 - 7,0
Packaging: 250 m x 2

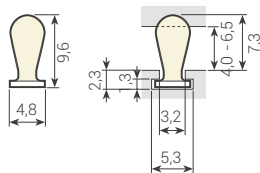
W34276



2Q567
QL 48950
 DOORS / WINDOWS
 T-SLOT
 TYPE A (5,3 MM)

Throat width: 3,2
 Groove depth: 2,3
 Seal gap: 4,0 - 6,5
 Packaging: 200 m x 2
 500 m x 2

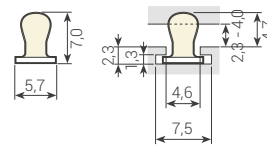
W34266



2Q623
QL 57700
 WINDOWS
 T-SLOT
 TYPE B (6,3 MM)

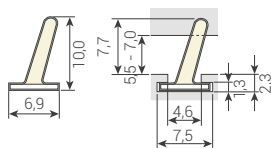
Throat width: 3,8
 Groove depth: 2,3
 Seal gap: 2,3 - 4,0
 Packaging: 200 m x 2

W25266



2Q694
QL 69100
 DOORS / WINDOWS
 T-SLOT
 TYPE C (7,5 MM)

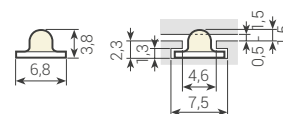
Retention slot throat: 4,6
 Min. slot depth: 2,3
 Seal gap: 5,5 - 7,0
 Packaging: 250 m x 2



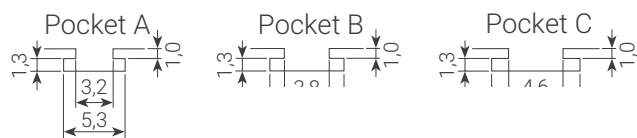
2Q697
QL 69400
 WINDOWS
 T-SLOT
 TYPE C (7,5 MM)

Throat width: 4,6
 Groove depth: 2,3
 Seal gap: 0,5 - 1,5
 Packaging: 700 m x 2
 900 m x 2

W15256



T-Slot dimensions

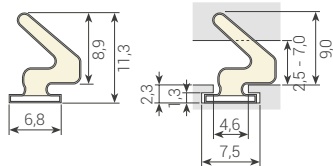


FOR PVCu APPLICATIONS

2Q700
QL 69447
DOORS / WINDOWS
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 2,5 - 7,0
Packaging: 250 m x 2

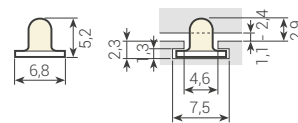
W33266



2Q707
QL 69510
WINDOWS
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 1,1 - 2,4
Packaging: 700 m x 2

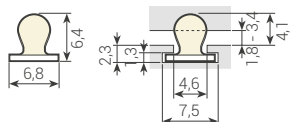
W15246



2Q714
QL 69650
WINDOWS
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 1,8 - 3,4
Packaging: 200 m x 2
400 m x 2
600 m x 2

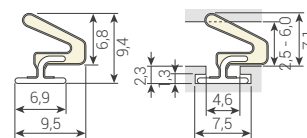
W33276



2Q990
QL 69700
WINDOWS
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 2,7 - 4,6
Packaging: 250 m x 2

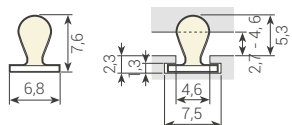
W33276



2Q721
QL 69750
WINDOWS
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 2,7 - 4,6
Packaging: 200 m x 2
500 m x 2

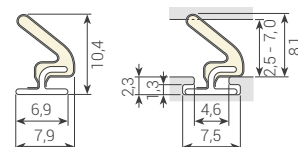
W24266



2Q728
QL 69800
DOORS / WINDOWS
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 2,5 - 7,0
Packaging: 250 m x 2

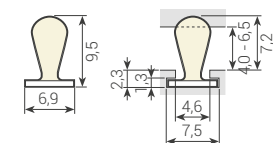
W34266



2Q742
QL 69950
DOORS / WINDOWS
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 4,0 - 6,5
Packaging: 200 m x 2
350 m x 2

W34266





Q-LON POLYURETHANE FOAM SEALS: FOR ALUMINIUM WINDOW AND DOOR AND WINDOW COVERING PRODUCT APPLICATIONS

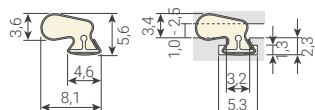
The variety of flexible shapes and different colours makes these Q-Lon profiles particularly suited for sealing applications in window covering products such as roller shutters and screens. Fitted into aluminium head boxes, side guiding channels or bottom bars, Q-Lon polyurethane foam seals minimise light and air leaks, limit contamination and provide long lasting noise dampening effects.





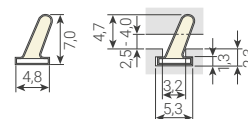
FOR ALUMINIUM APPLICATIONS

2Q512
QL 4636
WINDOWS / OTHER
T-SLOT
TYPE A (5,3 MM)



Retention slot throat: 3,2
Min. slot depth: 2,3
Seal gap: 1,0 - 2,5
Packaging: 300 m x 2

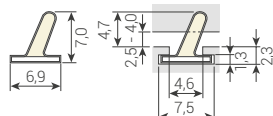
2Q517
QL 4870
WINDOWS / DOORS /
OTHER T-SLOT
TYPE A (5,3 MM)



Retention slot throat: 3,2
Min. slot depth: 2,3
Seal gap: 2,5 - 4,0
Packaging: 250 m x 2

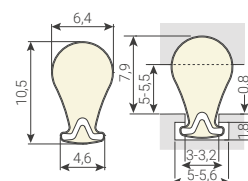
W23266

2Q693
QL 6970
WINDOWS / DOORS /
OTHER T-SLOT
TYPE C (7,5 MM)



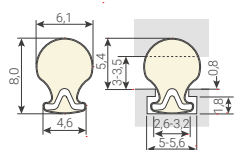
Retention slot throat: 4,6
Min. slot depth: 2,3
Seal gap: 2,5 - 4,0
Packaging: 250 m x 2

2Q529
QL 46105
OVERLAP SEALS



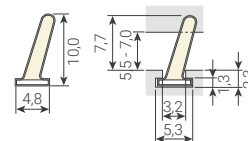
Throat width: 3 - 3,2
Groove width: 5 - 5,6
Seal gap: 5 - 5,5
Packaging: 250 m x 2

2Q577
QL 46800
OVERLAP SEAL



Throat width: 2,6 - 3,2
Groove width: 5 - 5,6
Seal gap: 3 - 3,5
Packaging: 250 m x 2

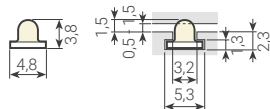
2Q516
QL 48100
WINDOWS / DOORS /
OTHER T-SLOT TYPE A
(5,3 MM)



Retention slot throat: 3,2
Min. slot depth: 2,3
Seal gap: 5,5 - 7,0
Packaging: 250 m x 2

2Q518
QL 48400
WINDOWS / OTHER
T-SLOT
TYPE A (5,3 MM)

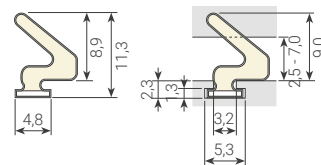
Throat width: 3,2
Groove depth: 2,3
Seal gap: 1,1 - 2,4
Packaging: 200 m x 2
700 m x 2
900 m x 2



W16266

2Q525
QL 48447
WINDOWS / DOORS /
OTHER T-SLOT
TYPE A (5,3 MM)

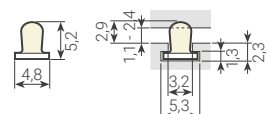
Throat width: 3,2
Groove depth: 2,3
Seal gap: 2,5 - 7,0
Packaging: 250 m x 2



W33266

2Q532
QL 48510
WINDOWS / OTHER
T-SLOT
TYPE A (5,3 MM)

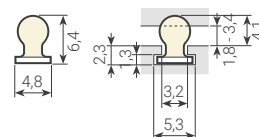
Throat width: 3,2
Groove depth: 2,3
Seal gap: 1,1 - 2,4
Packaging: 200 m x 2
500 m x 2
900 m x 2



W15256

2Q539
QL 48650
WINDOWS / OTHER
T-SLOT
TYPE A (5,3 MM)

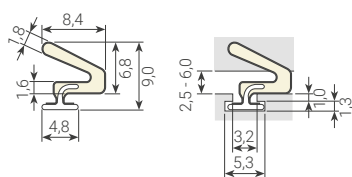
Throat width: 3,2
Groove depth: 2,3
Seal gap: 1,8 - 3,4
Packaging: 200 m x 2
500 m x 2
800 m x 2



W25256

2Q546
QL 48700
WINDOWS / DOORS /
OTHER T-SLOT
TYPE A (5,3 MM)

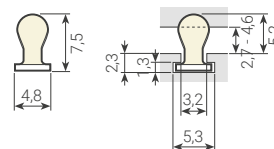
Throat width: 3,2
Groove depth: 2,3
Seal gap: 2,5 - 6,0
Packaging: 250 m x 2



W15256

2Q553
QL 48750
WINDOWS / OTHER
T-SLOT
TYPE A (5,3 MM)

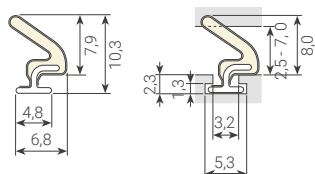
Throat width: 3,2
Groove depth: 2,3
Seal gap: 2,7 - 4,6
Packaging: 200 m x 2
600 m x 2



W25266

2Q560
QL 48800
WINDOWS / DOORS /
OTHER T-SLOT
TYPE A (5,3 MM)

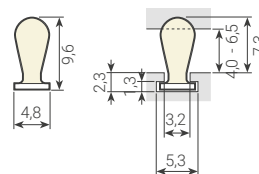
Throat width: 3,2
Groove depth: 2,3
Seal gap: 2,5 - 7,0
Packaging: 250 m x 2



W34276

2Q567
QL 48950
WINDOWS / DOORS /
OTHER T-SLOT
TYPE A (5,3 MM)

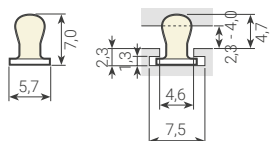
Throat width: 3,2
Groove depth: 2,3
Seal gap: 4,0 - 6,5
Packaging: 200 m x 2
500 m x 2



W34266

2Q623
QL 57700
WINDOWS / OTHER
T-SLOT
TYPE B (6,3 MM)

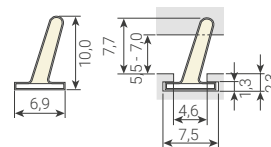
Throat width: 3,8
Groove depth: 2,3
Seal gap: 2,3 - 4,0
Packaging: 200 m x 2



W25266

2Q694
QL 69100
WINDOWS / DOORS /
OTHER T-SLOT
TYPE C (7,5 MM)

Retention slot throat: 4,6
Min. slot depth: 2,3
Seal gap: 5,5 - 7,0
Packaging: 250 m x 2



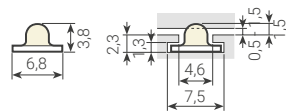
W33276

FOR ALUMINIUM APPLICATIONS

2Q697
QL 69400
WINDOWS / OTHER
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 0,5 - 1,5
Packaging: 700 m x 2
900 m x 2

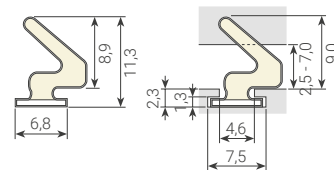
W15256



2Q700
QL 69447
WINDOWS / DOORS /
OTHER T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 2,5 - 7,0
Packaging: 250 m x 2

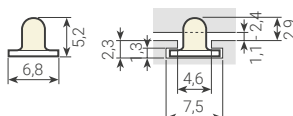
W33266



2Q707
QL 69510
WINDOWS / OTHER
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 1,1 - 2,4
Packaging: 700 m x 2

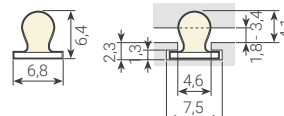
W15246



2Q714
QL 69650
WINDOWS / OTHER
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 1,8 - 3,4
Packaging: 200 m x 2
400 m x 2
600 m x 2

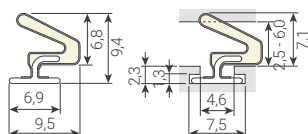
W15266



2Q990
QL 69700
WINDOWS / DOORS /
OTHER T-SLOT
TYPE C (7,5 MM)

Retention slot throat: 4,6
Min. slot depth: 2,3
Seal gap: 2,5 - 6,0
Packaging: 250 m x 2

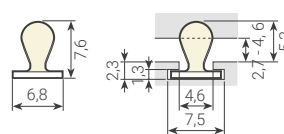
W33266



2Q721
QL 69750
WINDOWS / OTHER
T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 2,7 - 4,6
Packaging: 200 m x 2
500 m x 2

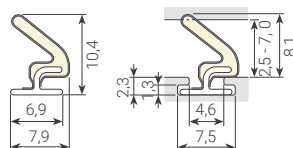
W24266



2Q728
QL 69800
WINDOWS / DOORS /
OTHER T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 2,5 - 7,0
Packaging: 250 m x 2

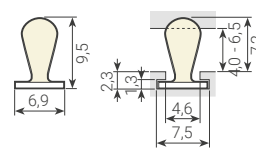
W34266



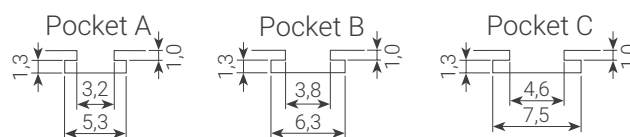
2Q742
QL 69950
WINDOWS / DOORS /
OTHER T-SLOT
TYPE C (7,5 MM)

Throat width: 4,6
Groove depth: 2,3
Seal gap: 4,0 - 6,5
Packaging: 200 m x 2
350 m x 2

W34266



T-Slot dimensions





Q-LON POLYURETHANE FOAM SEALS: FOR INTERIOR DESIGN; INTERNAL DOOR AND FURNITURE APPLICATIONS

- Suitable for internal timber doors and sliding wardrobe, closet and sideboard doors
- Helps to reduce noise, dust and light contamination
- Available colours: white, black, bronze and grey.

Other colours available on request

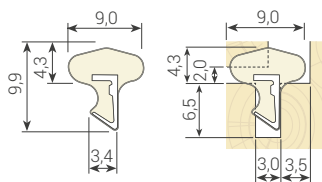




FOR INTERIOR DESIGN

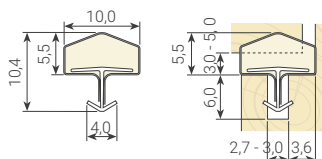
2Q995 QL 45 INTERNAL DOORS / FURNITURE

Groove width: 3,0
Min. groove depth: 6,5
Rebate: 9,0
Seal gap: 2,0
Packaging: 250 m x 2



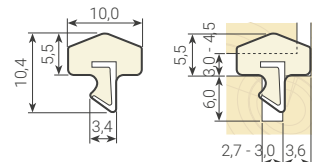
2Q581 QL 50 INTERNAL DOORS / FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,0 - 5,0
Packaging: 250 m x 2



2Q596 QL 55 INTERNAL DOORS / FURNITURE

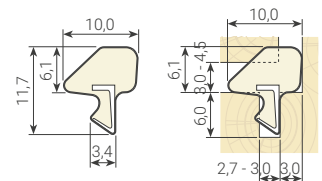
Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,0 - 4,5
Packaging: 250 m x 2



W16266

2Q581 QL 60 INTERNAL DOORS / FURNITURE

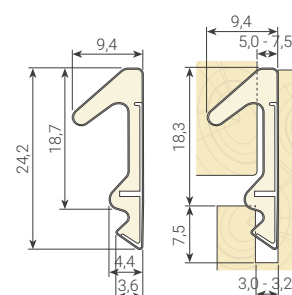
Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,0 - 4,5
Packaging: 250 m x 2



W33266

2Q777 QL 836 FURNITURE

Groove width: 3,0 - 3,2
Min. groove depth: 7,5
Seal gap: 5,0 - 7,5
Packaging: 125 m x 2

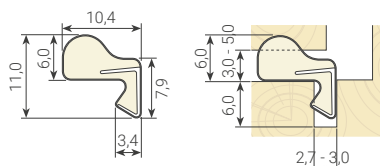


W15256

2Q014
QL 3004
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 3,0 - 5,0
Packaging: 350 m x 2

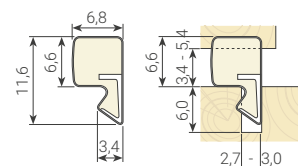
W26276



2Q021
QL 3005
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 3,4 - 5,4
Packaging: 300 m x 2

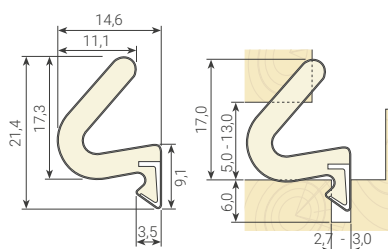
W35266



2Q028
QL 3006
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 5,0 - 13,0
Packaging: 2,1 m x 150

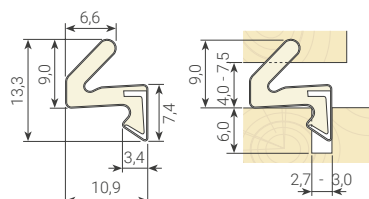
W62276



2Q035
QL 3009
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 4,0 - 7,5
Packaging: 250 m x 2

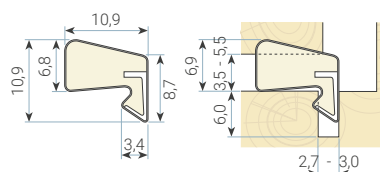
W32266



2Q042
QL 3011
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 3,5 - 5,5
Packaging: 250 m x 2

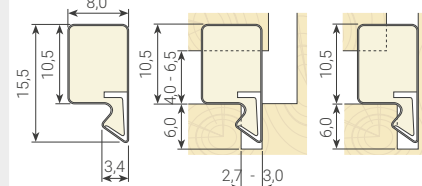
W35276



2Q049
QL 3012
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 4,0 - 6,5
Packaging: 200 m x 2

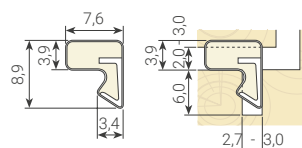
W45276



2Q210
QL 3013
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 2,0 - 3,0
Packaging: 500 m x 2

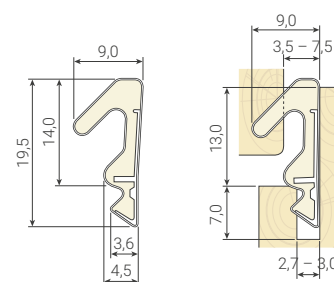
W15276



2Q070
QL 3020
ENTRY DOORS

Groove width: 2,7 - 3,0
Min. groove depth: 2,7
Rebate: 13,0
Seal gap: 3,5 - 7,5
Packaging: 125 m x 2

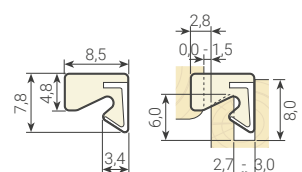
W44266



2Q084
QL 3034
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 8,0
Seal gap: 0,0 - 1,5
Packaging: 400 m x 2

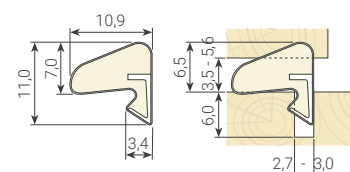
W36276



2Q091
QL 3037
INTERNAL DOORS /
FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,5 - 5,6
Packaging: 200 m x 2

W35266

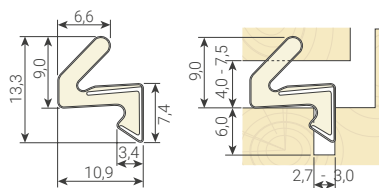


FOR INTERIOR DESIGN

2Q056 QL 3056 WINDOWS

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 9,0
Seal gap: 4,0 - 7,5
Packaging: 300 m x 2

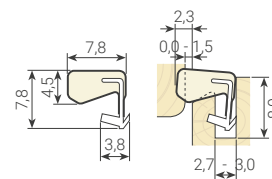
W34275



2Q175 QL 3070 FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 8,0
Seal gap: 0,0 - 1,5
Packaging: 400 m x 2

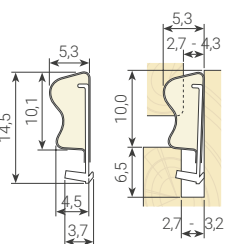
W25266



2Q182 QL 3072 INTERNAL DOORS / FURNITURE

Groove width: 2,7 - 3,2
Min. groove depth: 6,5
Rebate: 10,0
Seal gap: 2,7 - 4,3
Packaging: 300 m x 2

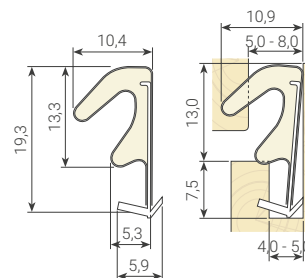
W24265



2Q189 QL 3073 FURNITURE

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Seal gap: 5,0 - 8,0
Packaging: 150 m x 2 / 200 m x 2

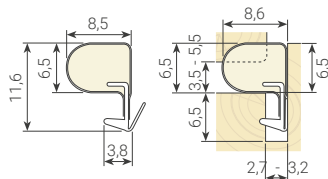
W44275



2Q196 QL 3074 FURNITURE

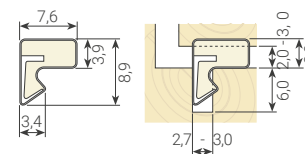
Groove width: 2,7 - 3,2
Min. groove depth: 6,5
Seal gap: 3,5 - 5,5
Packaging: 300 m x 2

W26276



2Q214 QL 3077 (QL 3013 RV) FURNITURE

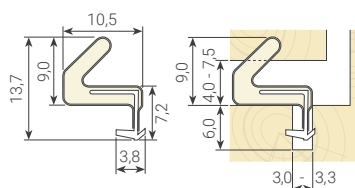
Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 2,0 - 3,0
Packaging: 500 m x 2



2Q217 QL 3078 FURNITURE

Groove width: 3,0 - 3,3
Min. groove depth: 6,0
Seal gap: 4,0 - 7,5
Packaging: 250 m x 2 / 300 m x 2

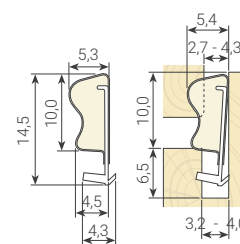
W33266



2Q224 QL 3079 FURNITURE

Groove width: 3,2 - 4,0
Min. groove depth: 6,5
Seal gap: 2,7 - 4,3
Packaging: 300 m x 2

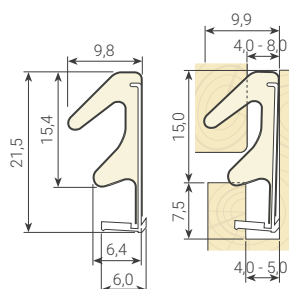
W33266



2Q231 QL 3091 INTERNAL DOORS / FURNITURE

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Seal gap: 4,0 - 8,0
Packaging: 150 m x 2 / 400 m x 1

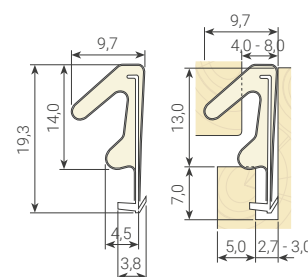
W44265



2Q238 QL 3093 FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 7,0
Seal gap: 4,0 - 8,0
Packaging: 150 m x 2 / 400 m x 1

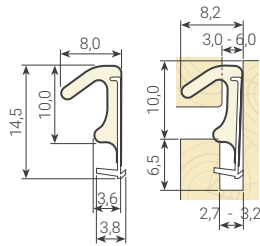
W44266



2Q245
QL 3094
INTERNAL DOORS /
FURNITURE

Groove width: 2,7 - 3,2
Min. groove depth: 6,5
Rebate: 10,0
Seal gap: 3,0 - 6,0
Packaging: 250 m x 2

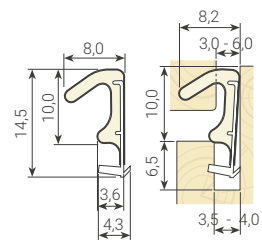
W32265



2Q252
QL 3095
FURNITURE

Groove width: 3,5 - 4,0
Min. groove depth: 6,5
Seal gap: 3,0 - 6,0
Packaging: 250 m x 2

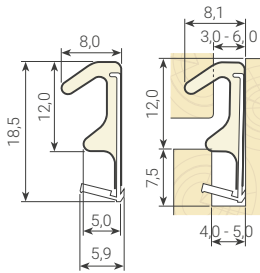
W32275



2Q259
QL 3096
FURNITURE

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Seal gap: 3,0 - 6,0
Packaging: 200 m x 2

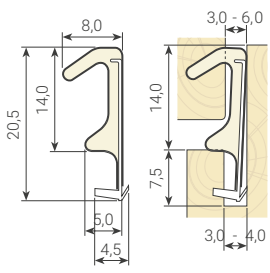
W33265



2Q273
QL 3098
FURNITURE

Groove width: 3,0 - 4,0
Min. groove depth: 7,5
Seal gap: 3,0 - 6,0
Packaging: 150 m x 2

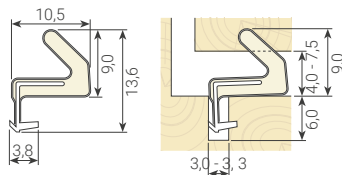
W33266



QL 3099
(QL 3078 RV)
FURNITURE

Groove width: 3,0 - 3,3
Min. groove depth: 6,0
Seal gap: 4,0 - 7,5
Packaging:
250 m x 2 / 300 m x 2

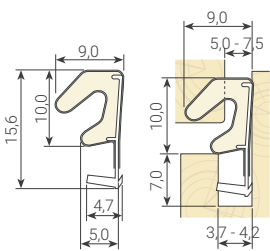
W33266



2Q294
QL 3102
FURNITURE

Groove width: 3,7 - 4,2
Min. groove depth: 7,0
Seal gap: 5,0 - 7,5
Packaging: 200 m x 2

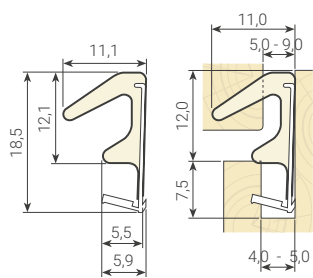
W33266



2Q308
QL 3104
FURNITURE

Groove width: 4,0 - 5,0
Min. groove depth: 7,5
Seal gap: 5,0 - 9,0
Packaging: 200 m x 2

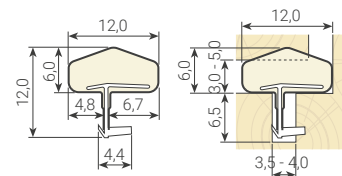
W33266



2Q3152
QL 3106
INTERNAL DOORS /
FURNITURE

Groove width: 3,5 - 4,0
Min. groove depth: 6,5
Rebate: 12,0
Seal gap: 3,0 - 5,0
Packaging: 250 m x 2

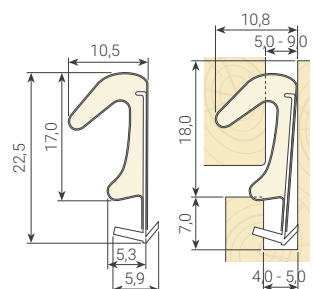
W25276



2Q322
QL 3109
FURNITURE

Groove width: 4,0 - 5,0
Min. groove depth: 7,0
Seal gap: 5,0 - 9,0
Packaging: 100 m x 2

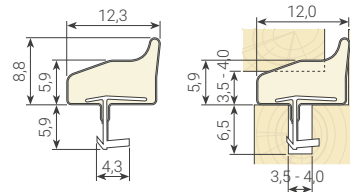
W43276



2Q329
QL 3110
INTERNAL DOORS /
FURNITURE

Groove width: 3,5 - 4,0
Min. groove depth: 6,5
Rebate: 12,0
Seal gap: 3,5 - 4,0
Packaging: 150 m x 2

W25266

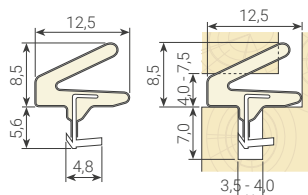


FOR INTERIOR DESIGN

2Q343 QL 3113 INTERNAL DOORS / FURNITURE

Groove width: 3,5 - 4,0
Min. groove depth: 7,0
Rebate: 12,0
Seal gap: 4,0 - 7,5
Packaging: 200 m x 2

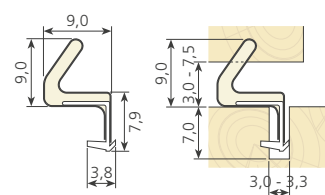
W35266



2Q371 QL 3118 FURNITURE

Groove width: 3,0 - 3,3
Min. groove depth: 7,0
Seal gap: 3,0 - 7,5
Packaging: 300 m x

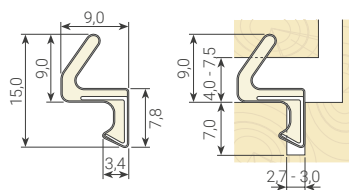
W31276



2Q420 QL 3128 FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 7,0
Seal gap: 4,0 - 7,5
Packaging: 300 m x 2

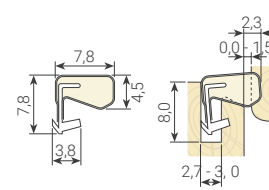
W32265



2Q427 QL 3131 (QL 3070 RV) FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 8,0
Seal gap: 0,0 - 1,5
Packaging: 400 m x 2

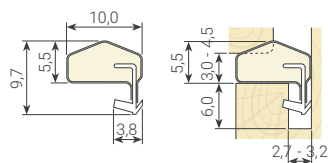
W25266



2Q462 QL 3138 INTERNAL DOORS / FURNITURE

Groove width: 2,7 - 3,2
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,0 - 4,5
Packaging: 250 m x 2

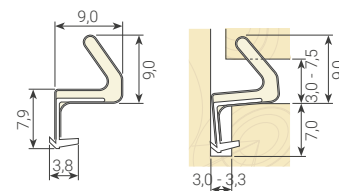
W25276



QL 3139 (QL 3118 RV) FURNITURE

Groove width: 3,0 - 3,3
Min. groove depth: 7,0
Seal gap: 3,0 - 7,5
Packaging: 300 m x 2

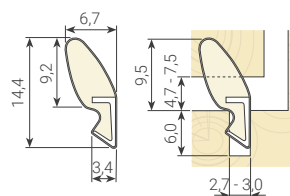
W31276



2Q609 QL 5626 FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 4,7 - 7,5
Packaging: 300 m x 2

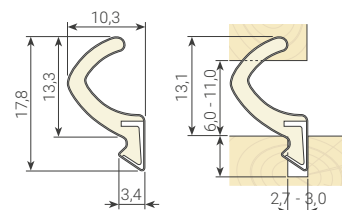
W33256



2Q616 QL 5694 FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 6,0 - 11,0
Packaging: 200 m x 2

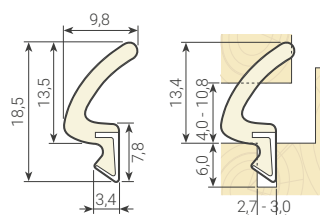
W43266



2Q749 QL 7000 FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 4,0 - 10,8
Packaging: 175 m x 2

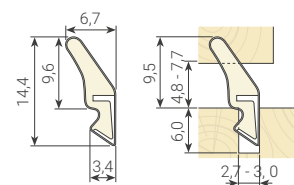
W52266



2Q763 QL 7066 FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Seal gap: 4,8 - 7,7
Packaging: 400 m x 2

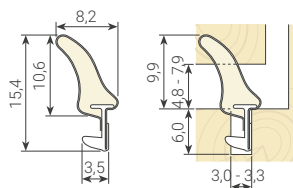
W33266



2Q8122
QL 9111
 FURNITURE

Groove width: 3,0 - 3,3
Min. groove depth: 6,0
Seal gap: 4,8 - 7,9
Packaging: 300 m x 2

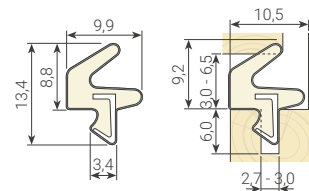
W34266



2Q959
QL 9985
 INTERNAL DOORS /
 FURNITURE

Groove width: 2,7 - 3,0
Min. groove depth: 6,0
Rebate: 10,0
Seal gap: 3,0 - 6,5
Packaging: 250 m x 2

W35276

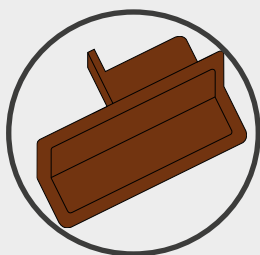
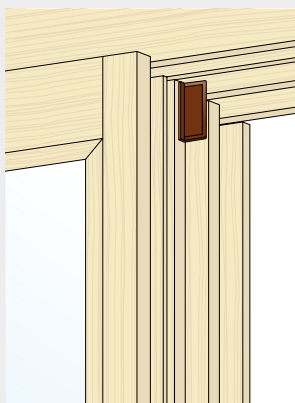




ACCESSORIES AND TOOLS: FOR Q-LON POLYURETHANE FOAM SEALS

Q-LON COVER CAPS FOR FRENCH WINDOWS

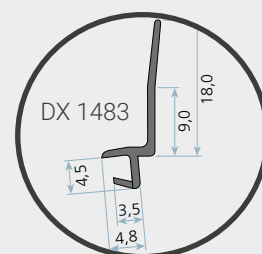
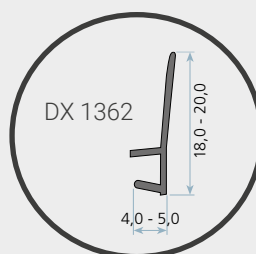
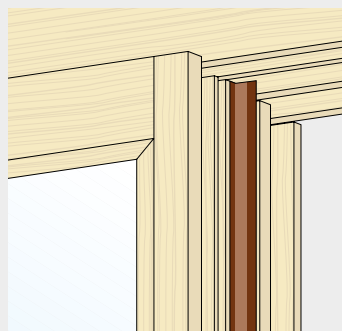
Special colour co-ordinated caps made from resistant HDPE for various groove and rebate dimensions.



Q-Lon Seal	Part No.	Groove	Rebate
QL 3034	MIS-9093	3,0	–
QL 3053	MIS-9124	4,0	12,0
	MIS-9125	5,0	
	MIS-9184	4,0	18,0 – 20,0
	MIS-9185	5,0	
QL 3054	MIS-9103	3,0	10,0
QL 3070	MIS-9093	3,0	–

LOZARON COVER PROFILES FOR FRENCH WINDOWS

Colour coordinated profile made from TPE, compatible with acrylic paint.



Q-Lon Seal	Part No.	Groove	Rebate
QL 3053	DX 1362	4,0 – 5,0	12 + 18 – 20
QL 3141	DX 1483	3,0	10,0 – 20,0

Q-LON MITRE CUTTERS



Q-Lon mitre cutters have an insertion roll for 90° and end cut for assembly in the sash. Part no. MIS-9001-99.

Q-LON INSERTION ROLLER



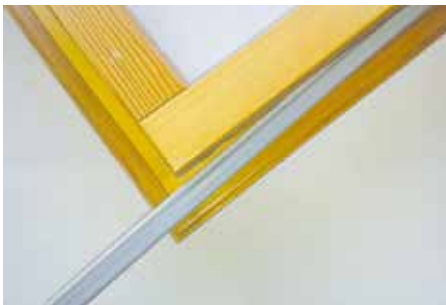
Profile manual roller. Part no. MIS-9007-01.

Q-LON OVERLAP INSERTION ROLLER



Profile manual roller. Part no. 2T03000.

INSTALLATION OF Q-LON IN THE SASH (SIDE JOINT)



Step 1
The Q-Lon profile is pressed into the kerf at the centre of the sash.



Step 2
The Q-Lon pliers are placed in the rebate corner with the stop and a 90° mitre is cut out.



Step 3
The final cut: by positioning the pliers against the profile as shown, the final cut is made in the precise length.

CORNER JOINTING WITH SILICONE MASTIC



Timber
Bonding of interrupted butt joint.



Timber
Bonding of mitre-cut joint.



PVCu and Aluminium
Enhancement of continuous seal.

Specification of silicone mastic: colourless WACKER Elastosil A07 RTV-1 silicone rubber / adhesive or equivalent.

EXTRUDED SEALS:

FOR TIMBER, PVC AND ALUMINIUM APPLICATIONS

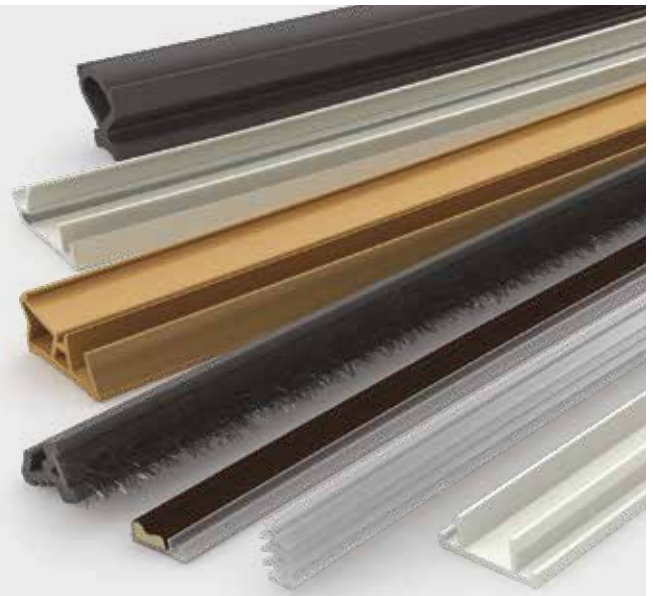
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SCHLEGEL: QUALITY SEALING FOR ESSENTIAL ENERGY CONSERVATION

Schlegel focuses on manufacturing high quality products for energy conservation and optimal sealing against draughts, water, dust, noise and light. With many years of global experience in the design and manufacture of outstanding components for windows and doors, Schlegel today has become the industry's first choice for foam, brush pile and extruded seals.

The Q-Lon brand has been developed and expanded to offer the widest range of foam seals for windows and doors, window covering products and interior design. The unique construction of polyethylene (PE) foil with incorporated polyurethane (PU) foam has made Q-Lon the seal of choice for a wide range of applications. Authentic Q-Lon seals are impervious to paint and stains, and provide industry leading performance in energy saving and noise reduction.

Poly-Bond brush pile seals are closely woven textile yarns interlaced into a rigid or soft backing. The water repellent polypropylene (PP) yarns are available in a range of heights, colours and densities. Poly-Bond brush pile seals are mostly applied in sliding applications, where the availability of a variety of widths, compression strengths and additional options such as fins offer the customers the opportunity to select the exact seal they need to meet their requirements.



In our range of extruded seals, a variety of materials and manufacturing processes are combined to achieve the optimal combination of product characteristics. The Lozaron extrusions are made of different plastic compounds and can be combined with the Poly-Bond brush pile and Q-Lon foam technologies as outlined. The products are traditionally applied in the fenestration and building industry, but also in the window covering and automotive sectors.

Our products are manufactured to meet the requirements of our many international customers in different industries. We use a Quality Management System registered and certified to norm ISO 9001:2015 and an Environmental Management System to ISO 14001:2004.

Tested and certified by:

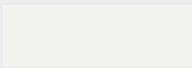


EXTRUDED SEALS:

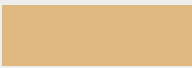
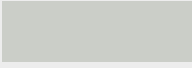
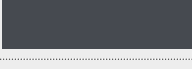
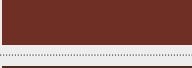
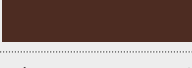
COLOUR RANGE

SCHLEGEL EXTRUDED SEALS ARE MADE FROM VARIOUS EXTRUDED MATERIALS AND CAN BE COMBINED WITH FOAM SEALS.

White, grey, brown and black are the main extrusion colours:

≈ RAL	Code	Colour
9003	222	 White
8019	220	 Brown
9005	223	 Black

Other colours including translucent and colour matching with customer specific colour schemes are subject to availability. These are determined by the colour of the granulates, masterbatches, and foam seal foil and can be offered upon request. Depending on the configuration, special conditions for minimum order quantities, lead time, packaging and price changes may apply.

≈ RAL	Code	Colour
1001	211	 Beige
7035	215	 Light Grey
7032	252	 Pebble Grey
8001	278	 Ochre Brown
7037	276	 Dusty Grey
7024	214	 Graphite Grey
8015	282	 Chestnut Brown
8017	284	 Chocolate Brown

For standard available colours per specific item please refer to the separately available customer drawings on our website.

COLOUR EXAMPLES

LV 0811
LOZARON INTERNAL
GLAZING SEAL

Translucent



LS 9125
LOZARON SEALING
PROFILE FOR TIMBER
ENTRY DOORS

≈ RAL 9003



LP 1055
LOZARON SEALING
PROFILE FOR TIMBER
ENTRY DOORS

≈ RAL 8003



LT 1403
LOZARON DOUBLE
SEALING PROFILE FOR
TIMBER WINDOWS

≈ RAL 7032



NS 1054
NOVA-SEAL PROFILE
FOR TIMBER WINDOWS
AND DOORS

≈ RAL 8001



LS 9125
LOZARON SEALING
PROFILE FOR TIMBER
ENTRY DOORS

≈ RAL 7001



NS 1078
NOVA-SEAL PROFILE
FOR TIMBER WINDOWS
AND DOORS

≈ RAL 8017



LT 1432
LOZARON SEALING
PROFILE FOR TIMBER
WINDOWS

≈ RAL 7024



LV 1102
DOUBLE SEALS

≈ RAL 8019



LV 0959
LOZARON THRESHOLD
PROFILE FOR TIMBER
ENTRY DOORS

≈ RAL 9005



EXTRUDED



THE CLASSIFICATIONS OF WEATHERSEALS TO EN 12365 2003

Under EN 12365 2003 there is a prescribed classification system that enables window, door, shutter and curtain walling manufacturers or installers to ensure that they are using the component that best meets their requirements.

It is important that evidence is provided and the classification of each seal demonstrated.

A SIX DIGIT SYSTEM IS USED:

1	2	3	4	5	6
Category of Use	Working Range	Linear Compression Force	Working Temperature Range	Deflection Recovery	Recovery After Ageing
W = Weatherstrip G = Gasket	9 grades showing the working range of the seal with 9 being the greatest distance	9 grades showing the linear compression force with 9 being the greatest force	6 grades showing the working temperature range each with different high and low temperatures	8 grades showing deflection recovery with grade 0 indicating no requirement and grade 7 showing the greatest recovery	8 grades showing recovery after ageing with grade 0 indicating no requirement and grade 7 showing the greatest recovery
	Grades 1: $\leq 1\text{mm}$ 2: $>1\text{mm} \leq 2\text{mm}$ 3: $>2\text{mm} \leq 4\text{mm}$ 4: $>4\text{mm} \leq 6\text{mm}$ 5: $>6\text{mm} \leq 8\text{mm}$ 6: $>8\text{mm} \leq 10\text{mm}$ 7: $>10\text{mm} \leq 15\text{mm}$ 8: $>15\text{mm} \leq 30\text{mm}$ 9: $>30\text{mm}$	Grades 1: $\leq 10\text{ N/m}$ 2: $>10\text{ N/m} \leq 20\text{ N/m}$ 3: $>20\text{ N/m} \leq 50\text{ N/m}$ 4: $>50\text{ N/m} \leq 100\text{ N/m}$ 5: $>100\text{ N/m} \leq 200\text{ N/m}$ 6: $>200\text{ N/m} \leq 500\text{ N/m}$ 7: $>500\text{ N/m} \leq 700\text{ N/m}$ 8: $>700\text{ N/m} \leq 1000\text{ N/m}$ 9: $>1000\text{ N/m}$	Grades 1: 0°C to $+45^{\circ}\text{C}$ 2: -10°C to $+55^{\circ}\text{C}$ 3: -20°C to $+85^{\circ}\text{C}$ 4: -25°C to $+100^{\circ}\text{C}$ 5: -40°C to $+70^{\circ}\text{C}$ 6: 0°C to $+200^{\circ}\text{C}$	Grades 0: No Requirement 1: $>30\%$ to 40% 2: $>40\%$ to 50% 3: $>50\%$ to 60% 4: $>60\%$ to 70% 5: $>70\%$ to 80% 6: $>80\%$ to 90% 7: $>90\%$	Grades 0: No Requirement 1: $>30\%$ to 40% 2: $>40\%$ to 50% 3: $>50\%$ to 60% 4: $>60\%$ to 70% 5: $>70\%$ to 80% 6: $>80\%$ to 90% 7: $>90\%$

When assessing the performance requirement, the greater the grade does not always show the best level of performance. So, when comparing categorisations higher scores are usually better but careful analysis is required to ensure that the needs of the particular application are met.

A TYPICAL CLASSIFICATION THEREFORE TAKES THE FORM OF:

W	5	3	6	4	5
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PRODUCT PERFORMANCE TABLES

The methodology for the linear compression test, the deflection recovery test and the recovery after ageing test are all described in EN 12365 2003 parts 2, 3 and 4. All

testing should be carried out by an accredited test facility. The testing facilities at SchlegelGiesse in Hamburg are accredited by ift Rosenheim.

TPE CLASSIFICATION TO EN 12365 2003

DX1383 (LT1383)	W	2	4	5	5	4
DX1432 (LT1432)	W	3	4	2	4	3
DX1452 (LT1452)	W	2	3	2	3	2



EXTRUDED SEALS: CERTIFICATIONS

Code	EN 12365
LT 1305	X
LT 1383	X
LT 1430	X
LT 1431	X
LT 1432	X
LT 1452	X

Code	EN 12365
LT 1509	X
LT 1511	X
LT 1513	X
LT 1515	X
LF 2002	X
LF 2003	X

Code	EN 12365
LS(DQ) 9123	X
LS(DQ) 9125	X
LS(DQ) 9155	X
LS(DQ) 9185	X

EXTRUDED





EXTRUDED SEALS:

SURPRISING VERSATILITY WITH OR WITHOUT PILE AND FOAM TECHNOLOGY

- Engineered solutions with or without foam technology
- Flexible PP, PVC and (foamed) TPE seals to make a perfect fit
- Co-extruded PP / TPE extrusions with closed cell PU foam for high deflection recovery
- PP extrusions with excellent mechanical properties
- Rigid PVC extrusions for robust value for money applications

Schlegel's range of extruded seals currently comprises over 120 different seals, and the range is growing. The availability of numerous material types, colour options and packaging solutions offers a wide range of possibilities and opportunities to our customers.

Further images and information relating to individual items can also be found on the Schlegel website. We would encourage you to visit the site regularly to browse the standard range and our more bespoke options. You can also use our new Search and Filter function to make the perfect selection for your needs.



THE EXTRUDED SEAL RANGE INCORPORATES 2 DIFFERENT TYPES

1. NOVA-SEAL (NS)

Nova-Seal is a PP / TPE co-extrusion that incorporates a unique closed cell polyurethane foam strip, and which also offers a very high deflection recovery due to the properties of the foam. Nova-Seal products are available for a range of different frame, sash and glazing applications.



2. LOZARON (LF) (LP) (LS) (LT) (LV)

The Lozaron seals consist of a range of TPE, foamed TPE, polypropylene or silicone profiles. Each of these materials has specific benefits which can be applied to the fenestration industry, be it for internal applications, external doors or sun protection for example. For the window industry there are Lozaron TPE extrusions with flexible microcell foam (LF). The Lozaron TPE (LT) extruded profiles without foam have a more universal application and are typically found in French (double) windows and doors for example. The Lozaron silicone (LS) seals are most commonly applied in external entry doors, where their resilience to deformation and temperature is crucial. Lozaron polypropylene (LP) and PVC (LV) extrusions come in many different forms and grades. The versatility of these materials meet the demands of many customers in the fenestration, as well as in the window covering, furniture and automotive industries.



EXTRUDED



NOVA-SEAL EXTRUDED SEALS WITH INCORPORATED FOAM

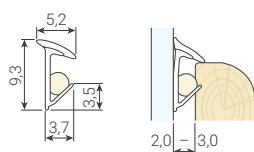
FOR DRY-GLAZING
APPLICATIONS



FOR DRY-GLAZING APPLICATIONS

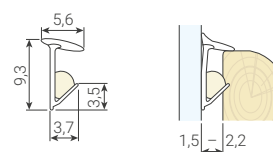
NS = Nova-Seal co-extruded PP/TPE seals with PU foam

21015 NS 1060 NOVA-SEAL GLAZING



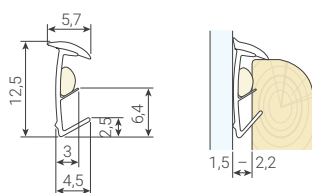
Groove width: 2,0 - 3,0
Min. groove depth: 7,5
Packaging: 400 m x 2

21035 NS 1065 NOVA-SEAL GLAZING



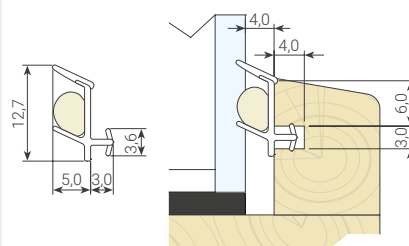
Groove width: 1,5 - 2,5
Min. groove depth: 8,5
Packaging: 400 m x 2

21128 NS 1105 NOVA-SEAL GLAZING



Groove width: 1,5 - 2,2
Min. groove depth: 11,5
Packaging: 400 m x 2

21157 NS 1122 NOVA-SEAL GLAZING



Groove width: 3,0
Min. groove depth: 3,5
Packaging: 400 m x 2

FOR TIMBER WINDOWS AND DOORS

- Closed cell PU foam offers high deflection recovery
- Rigid PP body unaffected by shrinkage or elongation
- Optional soft TPE lip for ease of insertion

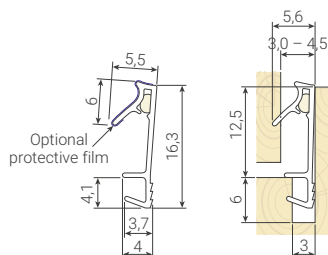
NS = Nova-Seal co-extruded PP/TPE seals with PU foam

F Suitable for frame seal

S Suitable for sash seal

21021 NS 1061 NOVA-SEAL

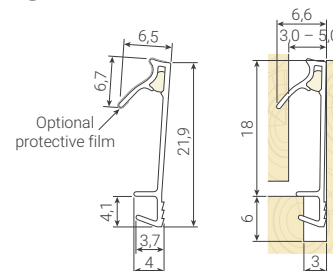
F S



Groove width: 3,0
Min. groove depth: 6,0
Rebate: 12,5
Seal gap: 3,0 - 4,5
Packaging: 250 m x 2

21042 NS 1066 NOVA-SEAL

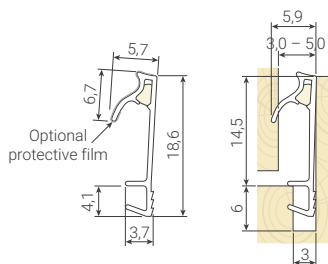
F S



Groove width: 3,0
Min. groove depth: 6,0
Rebate: 18,0
Seal gap: 3,0 - 5,0
Packaging: 250 m x 2

21055 NS 1074 NOVA-SEAL

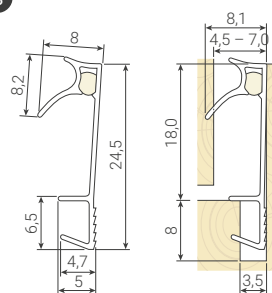
F S



Groove width: 3,0
Min. groove depth: 6,0
Rebate: 14,5
Seal gap: 3,0 - 5,0
Packaging: 250 m x 2

NS 1078 NOVA-SEAL

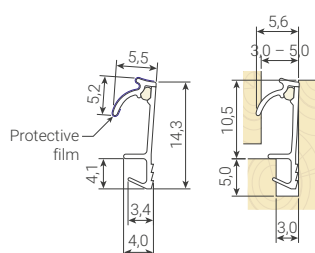
F S



Groove width: 3,5
Min. groove depth: 8,0
Rebate: 18,0
Seal gap: 4,5 - 7,0
Packaging: 250 m x 2

27350 NS 1079 NOVA-SEAL

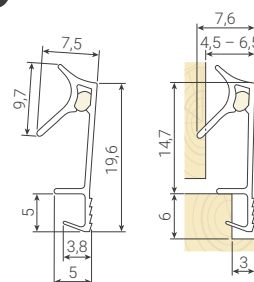
F S



Groove width: 3,0
Min. groove depth: 5,0
Rebate: 10,5
Seal gap: 3,0 - 5,0
Packaging: 250 m x 2

21100 NS 1082 NOVA-SEAL

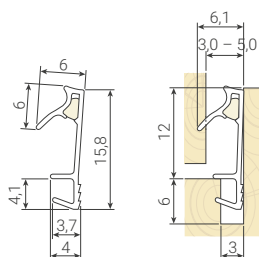
F S



Groove width: 3,0
Min. groove depth: 6,0
Rebate: 14,7
Seal gap: 4,5 - 6,5
Packaging: 250 m x 2

21000 NS 1054 NOVA-SEAL

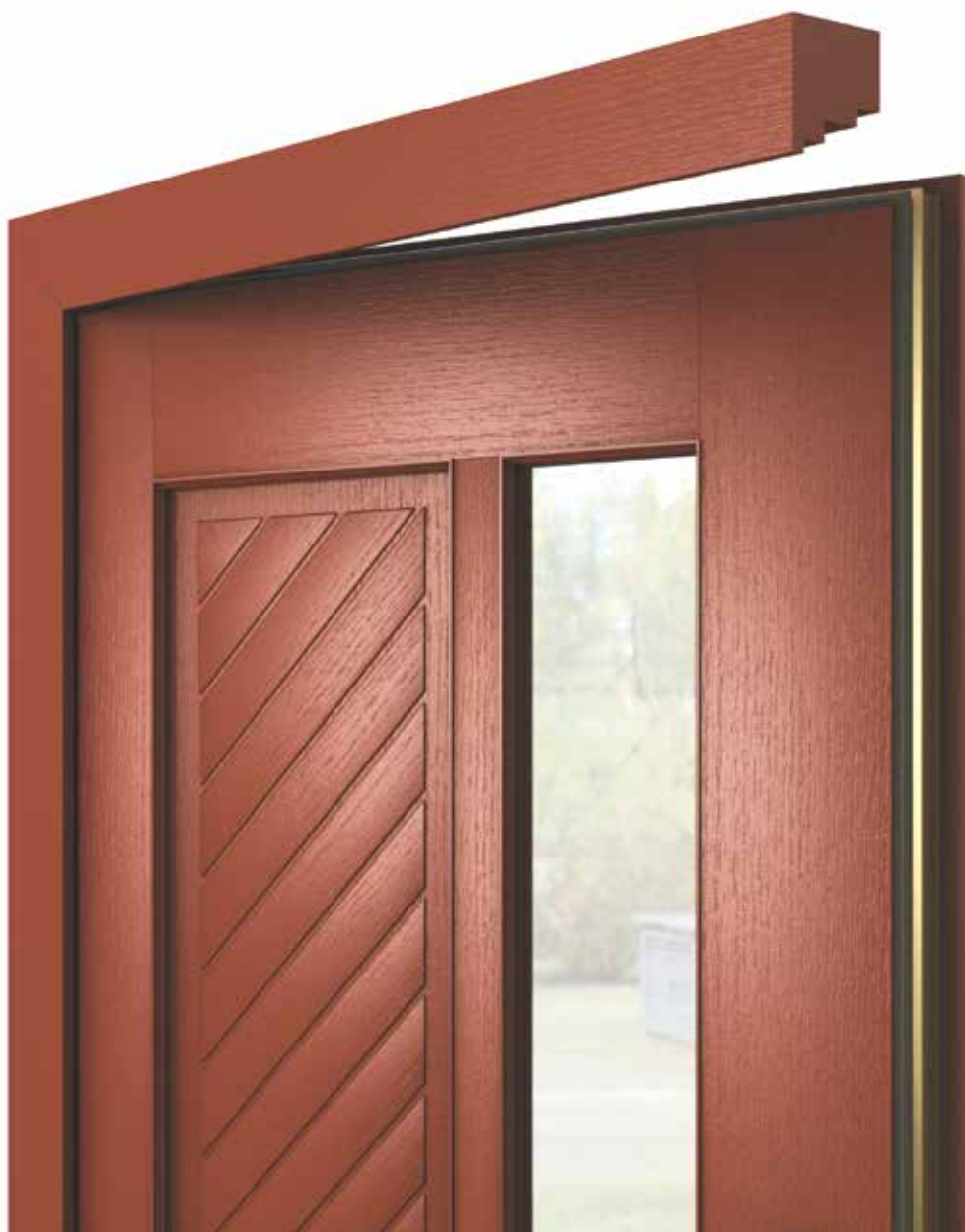
F S



Groove width: 3,0
Min. groove depth: 6,0
Rebate: 12,0
Seal gap: 3,0 - 5,0
Packaging: 250 m x 2

EXTRUDED





LOZARON EXTRUDED PROFILES

- Different materials and shapes for an array of applications, including dry glazing
- Lozaron foamed TPE (LF) with elastic micro-cell foam and rigid back for easy fitting
- Ultra-resilient Lozaron silicone entry door seals (LS) for applications in a wide temperature range
- Lozaron PP (LP) and PVC (LV) extrusions with excellent mechanical properties



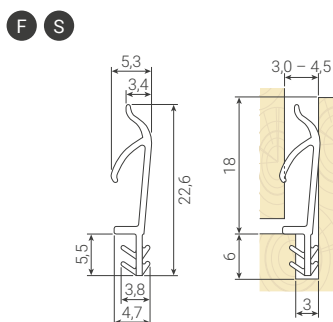
FOR TIMBER AND ENTRY DOORS

LP = Lozaron PP seals; **LS** = Lozaron silicone seals; **LT** = Lozaron TPE seals; **LV** = Lozaron PVC seals

P Premium silicone seal

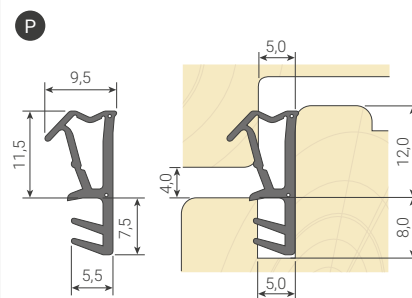
24071 LP 1055 ENTRY DOOR CASEMENT

Groove width: 3,0
Min. groove depth: 6,0
Rebate: 9,0
Seal gap: 3,0 - 4,5
Packaging: 250 m x 1



25200 LS 9125 DOOR SEALING PROFILE

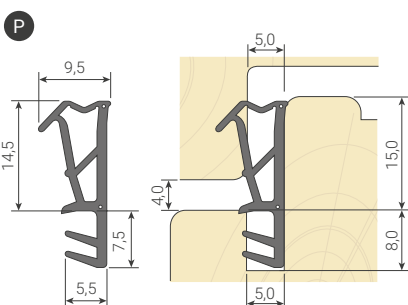
Groove width: 5,0
Min. groove depth: 8,0
Rebate: 12,0
Seal gap: 5,0
Packaging: 50 m x 1



W45574

25000 LS 9155 DOOR SEALING PROFILE

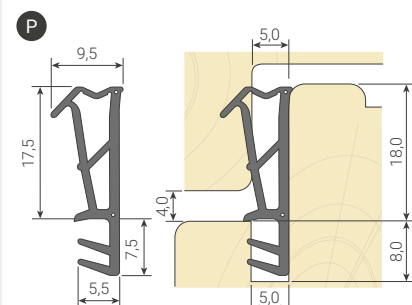
Groove width: 5,0
Min. groove depth: 8,0
Rebate: 15,0
Seal gap: 5,0
Packaging: 50 m x 1



W46574

LS 9185 DOOR SEALING PROFILE

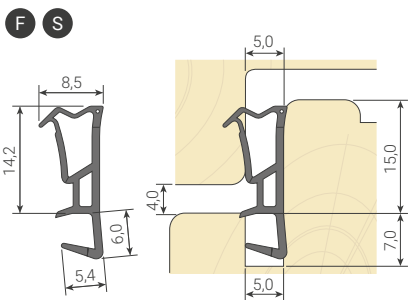
Groove width: 5,0
Min. groove depth: 8,0
Rebate: 18,0
Seal gap: 5,0
Packaging: 50 m x 1



W46574

26350 LT 1430 DOOR SEALING PROFILE

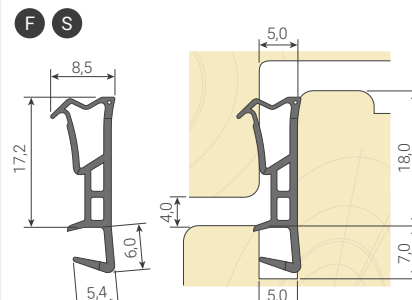
Groove width: 5,0
Min. groove depth: 7,0
Rebate: 15,0
Seal gap: 5,0
Packaging: 130 m x 1



W34242

26454 LT 1431 DOOR SEALING PROFILE

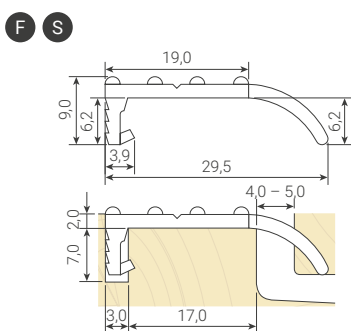
Groove width: 5,0
Min. groove depth: 7,0
Rebate: 18,0
Seal gap: 5,0
Packaging: 100 m x 1



W34242

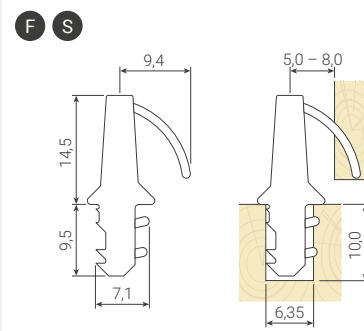
27003 LV 0959 DOOR THRESHOLD PROFILE

Groove width: 3,0
Min. groove depth: 7,0
Rebate: 17,0
Seal gap: 4,0 - 5,0
Packaging: 165



27437 LV 1140 DOOR SEALING PROFILE

Groove width: 6,35
Min. groove depth: 10,0
Seal gap: 5,0 - 8,0
Packaging: 50



EXTRUDED



FOR TIMBER INTERNAL DOORS

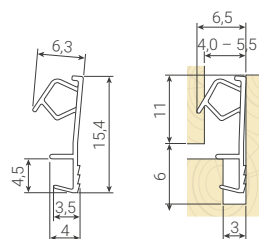


FOR TIMBER INTERNAL DOORS

EXTRUDED

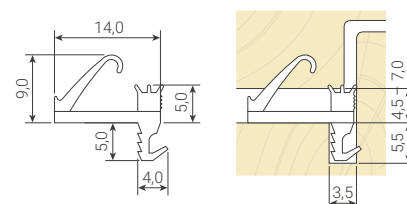
24091 LP 1057 CASEMENT SEAL

Groove width: 3,0
Min. groove depth: 6,0
Rebate: 11,0
Seal gap: 4,0 - 5,5
Packaging: 800 m x 1



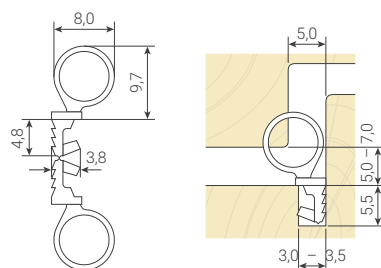
27210 LV 0893 SEALING PROFILE

Groove width: 3,5
Min. groove depth: 5,5
Seal gap: 4,5 - 7,0
Packaging: 2,21 m x 110



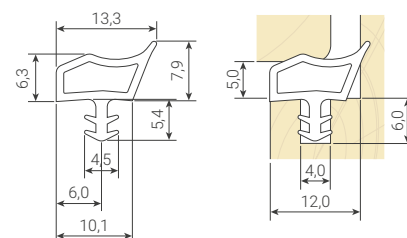
27279 LV 0935 DOUBLE SEALING PROFILE

Groove width: 3,0 - 3,5
Min. groove depth: 5,5
Seal gap: 5,0 - 7,0
Packaging: 150 m x 1



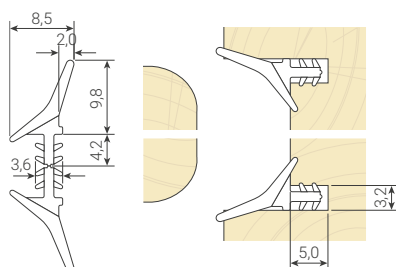
27670 LV 1481 SEALING PROFILE

Groove width: 4,0
Min. groove depth: 6,0
Rebate: 12,0
Seal gap: 5,0
Packaging: 50 m x 1



27762 LV 1494 SLIDING DOOR SEAL

Groove width: 3,2
Min. groove depth: 5,0
Packaging: 2,15 m x 150
100 m x 1



LP = Lozaron PP seals; LV = Lozaron PVC seals

FOR TIMBER WINDOWS

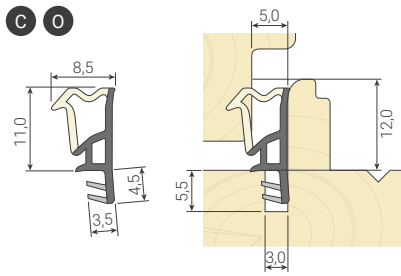
LP = Lozaron foamed TPE seals; **LP** = Lozaron PP seals; **LT** = Lozaron TPE seals

C Suitable for centre seal **O** Suitable for overlap seal **F** Suitable for frame seal **S** Suitable for sash seal

23040 LF 2002 SEALING PROFILE

Groove width: 3,0
Min. groove depth: 5,5
Rebate: 12,0
Seal gap: 5,0
Packaging: 150 m x 1

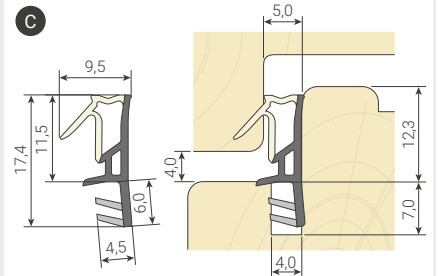
W35243



23361 LF 2003 SEALING PROFILE

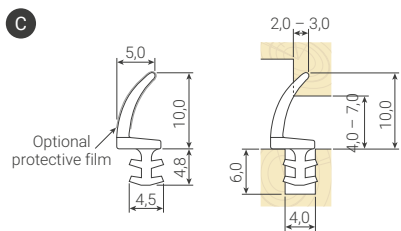
Groove width: 4,0
Min. groove depth: 7,0
Rebate: 12,3
Seal gap: 5,0
Packaging: 200 m x 1

W46243



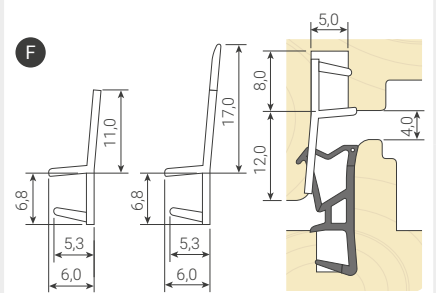
24171 LP 1101 CENTRE SEAL

Groove width: 4,0
Min. groove depth: 6,0
Seal gap: 4,0 - 7,0
Packaging: 300 m x 1



26020 LT 1362 FRENCH WINDOW PROFILE

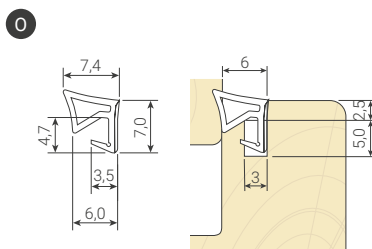
Groove width: 5,0
Min. groove depth: 8,0
Rebate: 12,0 / 19,0
Packaging: 25 m x 1
150 m x 1



27590 LT 1383 WINDOW SEAL

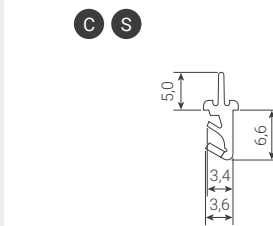
Groove width: 3,0
Min. groove depth: 5,0
Rebate: 2,5
Seal gap: 6,0
Packaging: 200 m x 1

W24554



LT 1403 DOUBLE SEAL

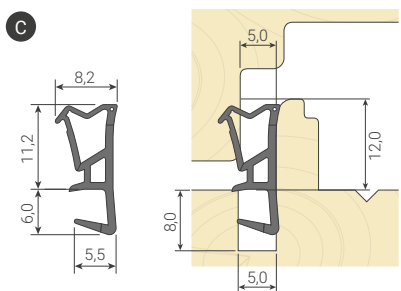
Groove width: 3,0
Min. groove depth: 7,0
Packaging: 300 m x 1



26571 LT 1432 SEALING PROFILE

Groove width: 5,0
Min. groove depth: 8,0
Rebate: 12,0
Seal gap: 5,0
Packaging: 150 m x 1

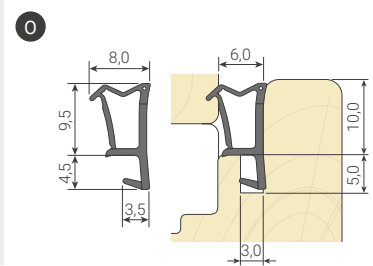
W34243



26664 LT 1452 OVERLAP SEAL

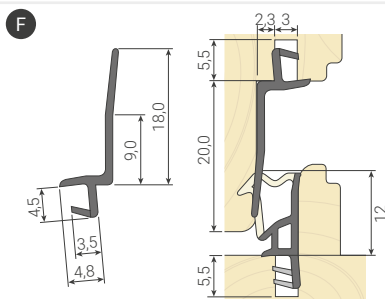
Groove width: 3,0
Min. groove depth: 5,0
Rebate: 10,0
Seal gap: 6,0
Packaging: 200 m x 1

W23232



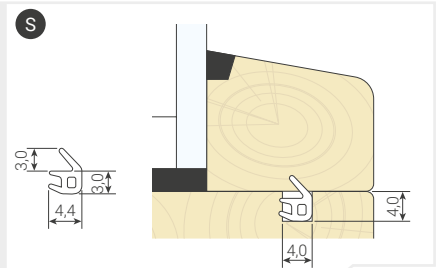
LT 1483 FRENCH WINDOW PROFILE

Groove width: 3,0
Min. groove depth: 5,5
Rebate: 10,0 / 20,0
Packaging: 25 m x 1
150 m x 1



LT 1484 GLAZING BEAD SEAL

Groove width: 4,0
Min. groove depth: 4,0
Packaging: 400 m x 2



EXTRUDED



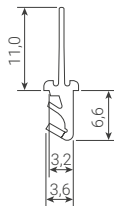
FOR TIMBER WINDOWS

LP = Lozaron foamed TPE seals **LP** = Lozaron PP seals **LT** = Lozaron TPE **LV** = Lozaron PVC seals

C Suitable for centre seal **F** Suitable for frame seal seals

LT 1489 DOUBLE SEAL

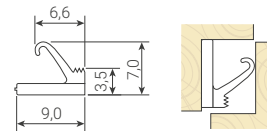
C S



Groove width: 3,0
Min. groove depth: 7,0
Packaging: 300 m x 1

27141 LV 0816 RETROFIT DOUBLE SEAL

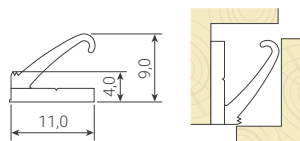
F S



Seal gap: 3,5 - 6,0
Packaging: 50 m x 1

27164 LV 0856 RETROFIT DOUBLE SEAL

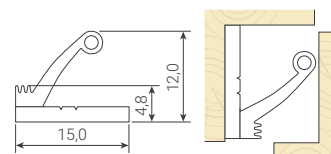
F S



Seal gap: 4,0 - 8,0
Packaging: 40 m x 1

27187 LV 0869 RETROFIT DOUBLE SEAL

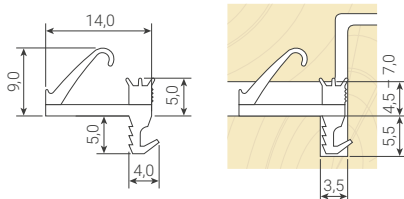
F S



Seal gap: 5,0 - 11,0
Packaging: 40 m x 1

27210 LV 0893 SEALING PROFILE

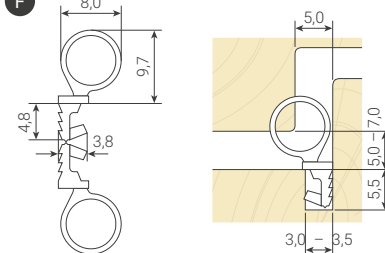
F



Groove width: 3,5
Min. groove depth: 5,5
Seal gap: 4,5 - 7,0
Packaging: 2,21 m x 100

27279 LV 0935 DOUBLE SEALING PROFILE

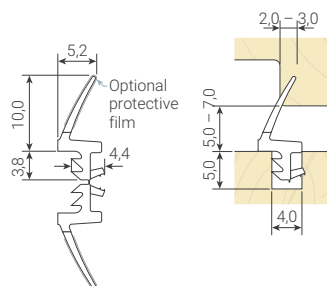
F



Groove width: 3,0 - 3,5
Min. groove depth: 5,5
Seal gap: 5,0 - 7,0
Packaging: 150 m x 1

27302 LV 0969 DOUBLE FLIPPER SEAL

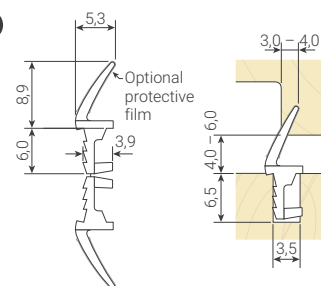
F



Groove width: 4,0
Min. groove depth: 5,0
Seal gap: 5,0 - 7,0
Packaging: 90 m x 3

27350 LV 1079 DOUBLE FLIPPER SEAL

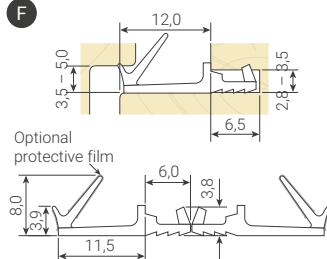
F



Groove width: 3,5
Min. groove depth: 6,5
Seal gap: 4,0 - 6,0
Packaging: 80 m x 3

27370 LV 1102 DOUBLE SEAL

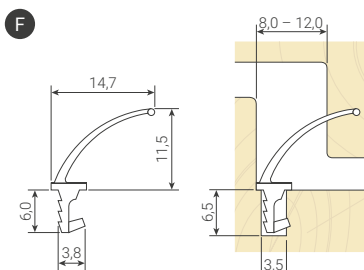
C F



Groove width: 2,8 - 3,5
Min. groove depth: 6,5
Rebate: 12,0
Seal gap: 3,5 - 5,0
Packaging: 80 m x 4

27506 LV 1237 SEALING PROFILE

F



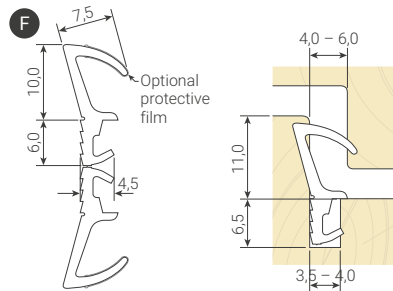
Groove width: 3,5
Min. groove depth: 6,5
Seal gap: 8,0 - 12,0
Packaging: 60 m x 6

EXTRUDED



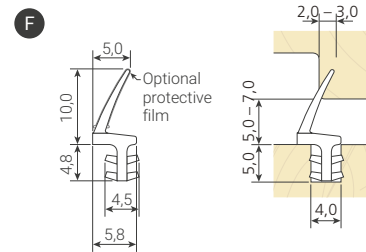
LV 1255 DOUBLE SEALING PROFILE

Groove width: 3,5 - 4,0
Min. groove depth: 6,5
Rebate: 11,0
Seal gap: 4,0 - 6,0
Packaging: 60 m x 3



27555 LV 1305 SEALING PROFILE

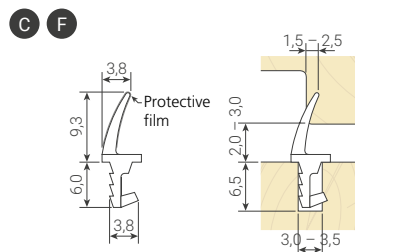
Groove width: 4,0
Min. groove depth: 5,0
Seal gap: 5,0 - 7,0
Packaging: 45 m x 7
60 m x 10
300 m x 1



W33221

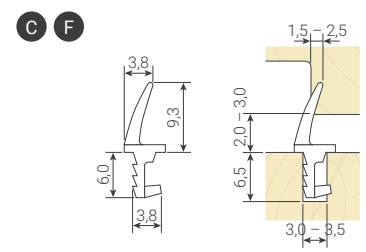
27575 LV 1339 FLIPPER SEAL

Groove width: 3,0
Min. groove depth: 6,5
Seal gap: 2,0 - 3,0
Packaging: 300 m x 1



27645 LV 1440 FLIPPER SEAL

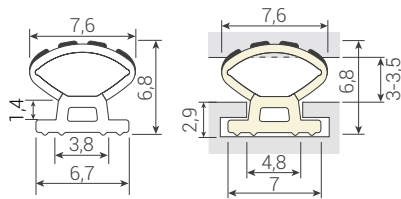
Groove width: 3,2
Min. groove depth: 6,5
Seal gap: 2,0 - 3,0
Packaging: 300 m x 1



FOR ALUMINIUM WINDOWS/DOORS

26990 LT 1509 SLIDING SEAL

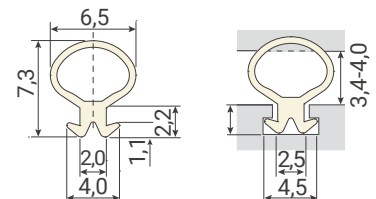
Throat width: 4 - 4,5
Groove width: 7
Seal gap: 3 - 3,5
Packaging: 500 m x 1



W24521

26991 LT 1511 OVERLAP SEAL

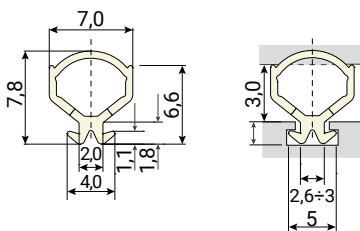
Throat width: 2,5 - 3
Groove width: 4,5
Seal gap: 3,4 - 4,0
Packaging: 400 m x 1



W25242

26992 LT 1513 OVERLAP SEAL

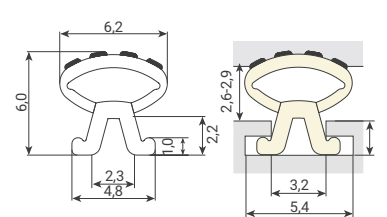
Throat width: 2,6 - 3
Groove width: 5
Seal gap: 3
Packaging: 250 m x 1



W35232

26993 LT 1515 SLIDING SEAL

Throat width: 3,2
Groove width: 5,4
Seal gap: 2,6 - 2,9
Packaging: 250 m x 1

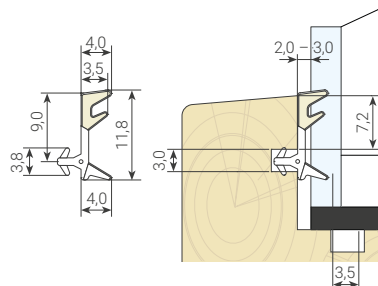


W15232

FOR DRY GLAZING

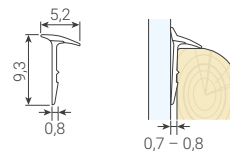
LF = Lozaron foamed TPE seals; **LP** = Lozaron PP seals; **LV** = Lozaron PVC seals

23682
LF 2004
GLAZING SEAL



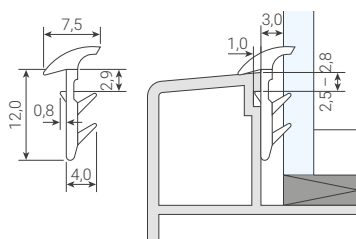
Groove width: 3,0
Min. groove depth: 3,5
Seal gap: 2,0 - 3,0
Packaging: 300 m x 1

24010
LP 1034
COVER PROFILE



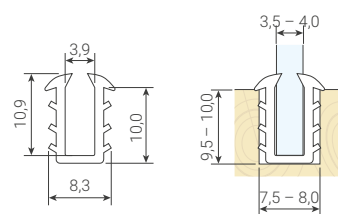
Groove width: 0,7 - 0,8
Packaging: 400 m x 1

27049
LV 0412
GLAZING SEAL



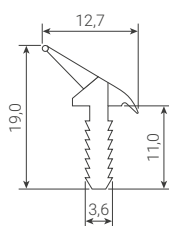
Groove width: 3,0
Packaging: 150 m x 1

27118
LV 0811
INTERNAL SEAL



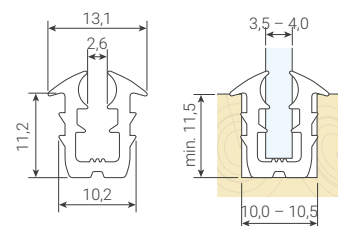
Groove width: 7,5 - 8,0
Min. groove depth: 9,5 - 10,0
Packaging: 200 m x 1

27322
LV 1037
AUTOMOTIVE GLAZING SEAL



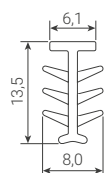
Packaging: 100 m x 1

LV 1486
INTERNAL SEAL



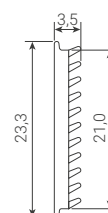
Groove width: 10,0 - 10,5
Min. groove depth: 11,5
Packaging: 120 m x 1

LV 1487
COVER PROFILE



Groove width: 0,7 - 0,8
Packaging: 400 m x 1

LV 1488
SHOWER CABIN SEAL



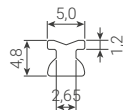
Packaging: 2,0 m x 170

EXTRUDED

FOR ROLLER SHUTTERS, SCREENS AND WINDOW COVERING PRODUCTS

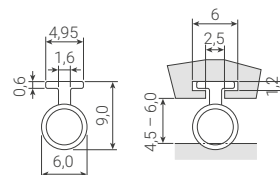
LP = Lozaron PP seals; **LV** = Lozaron PVC seals

24030
LP 1040
SIDE GUIDING
SHUTTER PROFILE



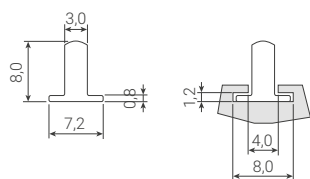
Packaging: 500 m x 1

26015
LP 1077
BOTTOM BAR SEAL



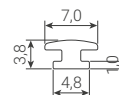
Groove width: 2,5 - 6,0
Min. groove depth: 1,2
Seal gap: 4,5 - 6,0
Packaging: 400 m x 1

24151
LP 1088
ROLLER SHUTTER
T-PROFILE



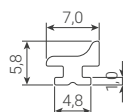
Groove width: 4,0 - 8,0
Min. groove depth: 1,2
Packaging: 400 m x 1

27370
LP 1102
SIDE GUIDING
SHUTTER PROFILE



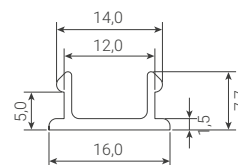
Packaging: 400 m x 2

LP 1163
SIDE GUIDING
SHUTTER PROFILE



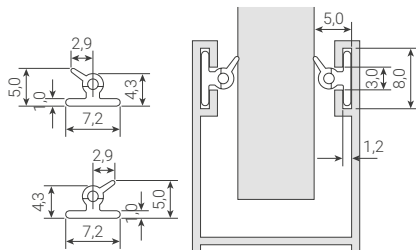
Packaging: 400 m x 2

27364
LV 1194
COVER PROFILE



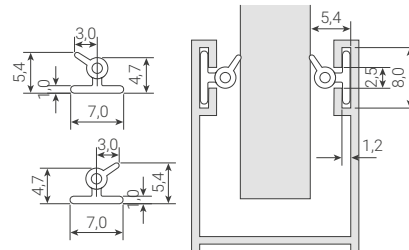
Packaging: 2,5 m x 50

LV 1417
SIDE GUIDING
SEALING PROFILE



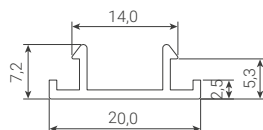
Groove width: 3,0 - 8,0
Min. groove depth: 1,2
Packaging: 350 m x 1

27814
LV 1428
SIDE GUIDING
SEALING PROFILE



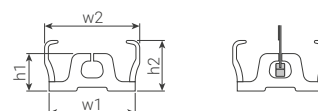
Groove width: 2,5 - 8,0
Min. groove depth: 1,2
Packaging: 350 m x 1

27965
LV A019
COVER PROFILE



Packaging: 2,105 m x 100

LV ZIP
ZIP SCREEN PROFILE
(DESIGN TO ORDER)

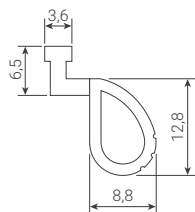


Packaging: 6,0 m x 40

EXTRUDED



27026
LV 0302
TRUCK BODY SEAL



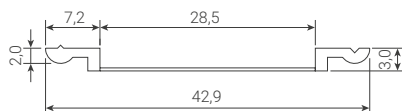
Packaging: 100 m x 1

27072
LV 0627
RETROFIT SEAL



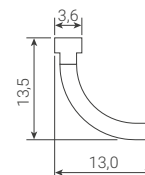
Packaging: 2,1 x 216
2,5 x 216

27095
LV 0799
PROTECTION PROFILE



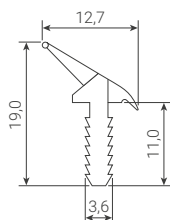
Packaging: 75 m x 2

27233
LV 0902
TRUCK BODY SEAL



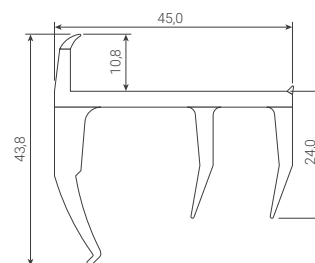
Packaging: 50 m x 5

27322
LV 1037
AUTOMOTIVE GLAZING SEAL



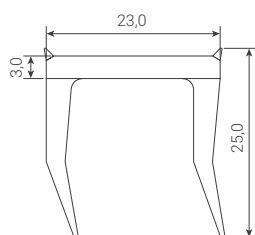
Packaging: 100 m x 1

LV 1123
AUTOMOTIVE DOOR SEAL



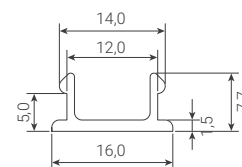
Packaging: 20

24258
LV 1124
AUTOMOTIVE DOOR SEAL



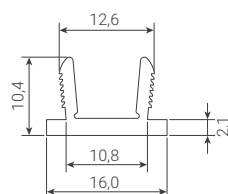
Packaging: 84

27364
LV 1194
COVER PROFILE



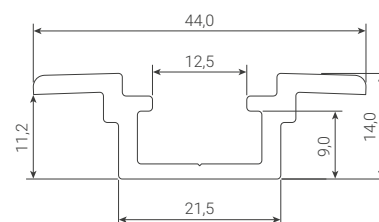
Packaging: 2,5 m x 50

27483
LV 1215
COVER PROFILE



Packaging: 2,5 m x 50

27952
LV A018
COMPOSITE DOOR BASE COVER

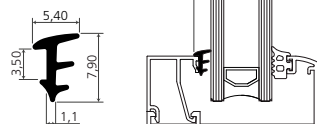


Packaging: 2,105 m x 40

FOR ALUMINIUM DRY GLAZING

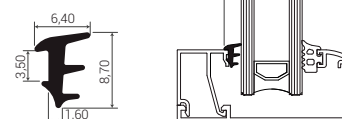
LE = Lozaron EPDM seals

22305
LE 611 FV2
GLASS BEAD SEAL



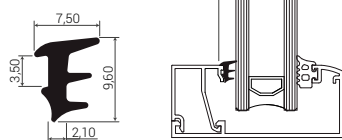
A: Seal gap: 2 mm
Packaging: 500 m x 1

22310
LE 727 FV3
GLASS BEAD SEAL



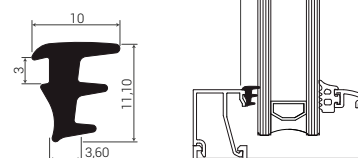
A: Seal gap: 3 mm
Packaging: 400 m x 1

22315
LE 768 FV4
GLASS BEAD SEAL



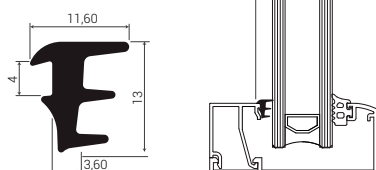
A: Seal gap: 4 mm
Packaging: 250 m x 1

22320
LE 1009 FV5
GLASS BEAD SEAL



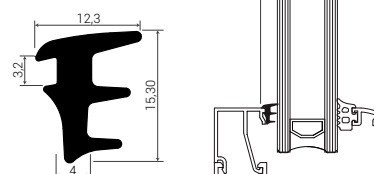
A: Seal gap: 5 mm
Packaging: 150 m x 1

22325
LE 1162 FV6
GLASS BEAD SEAL



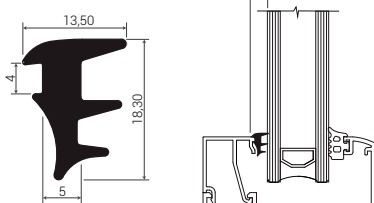
A: Seal gap: 6 mm
Packaging: 150 m x 1

22330
LE 1232 FV7
GLASS BEAD SEAL



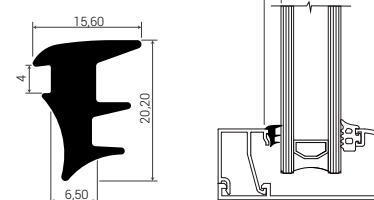
A: Seal gap: 7 mm
Packaging: 100 m x 1

22335
LE 1325 FV8
GLASS BEAD SEAL



A: Seal gap: 8 mm
Packaging: 100 m x 1

22340
LE 1670 FV10
GLASS BEAD SEAL



A: Seal gap: 10 mm
Packaging: 100 m x 1

EXTRUDED

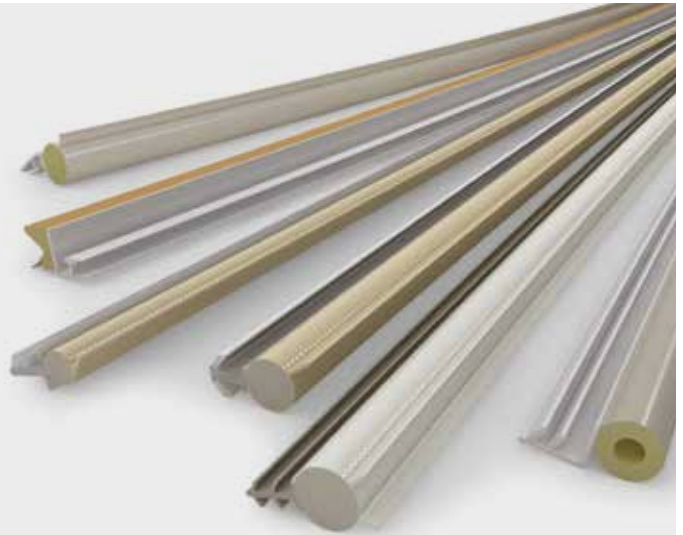


FOAM-TITE WEATHERSEALS:

HIGH PERFORMANCE THERMOPLASTIC FOAM SEAL

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FOAM-TITE WEATHERSEAL: SUPERIOR WINDOW AND DOOR PROTECTION



Schlegel specialises in the design and manufacture of high quality seals in standard and custom configurations for the fenestration industry. Our seals offer a superior way to eliminate air and water infiltration whilst maintaining excellent compression force and recovery properties.

The Foam-Tite closed cell foam profile has superior weather sealing performance, efficiently restricting air, light, water and sound infiltration. Available in standard and custom configurations, the foam remains flexible through thousands of compressions and ensures long life.

Foam-Tite – superior benefits:

- Three carrier styles – T-slot, Pocket-slot and Kerf-slot
- TPV foam core – high durability, superior recovery performance

- Range of surface options
- Fully customisable – to meet the needs of each application
- Foam can be shaped into bulbs, flippers, fins and hollows
- Effectively closed cell to ensure water can't penetrate the foam cell structure
- Excellent compression set resistance – achieves 'A' ratings when tested to AAMA 702 standard
- Nominal value of thermal conductivity – 0.067 W/m.K
- Extruded skin provides a unique UV resistant barrier
- Enhanced sealing performance
- Available with low friction Clad FT jacketing features
- Available in a variety of standard colours – custom colours available on request

Suitable for Aluminium, Steel, PVC and Timber frames

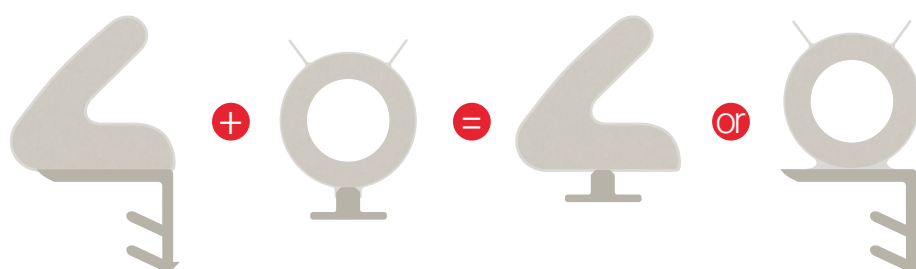


BUILD YOUR OWN SEAL:
HYBRID SEALS



FOAM TITE





Foam-Tite hybrid seals allow you the flexibility to choose any foam shape and any carrier from our extensive range of profiles and combine them in one unique profile.

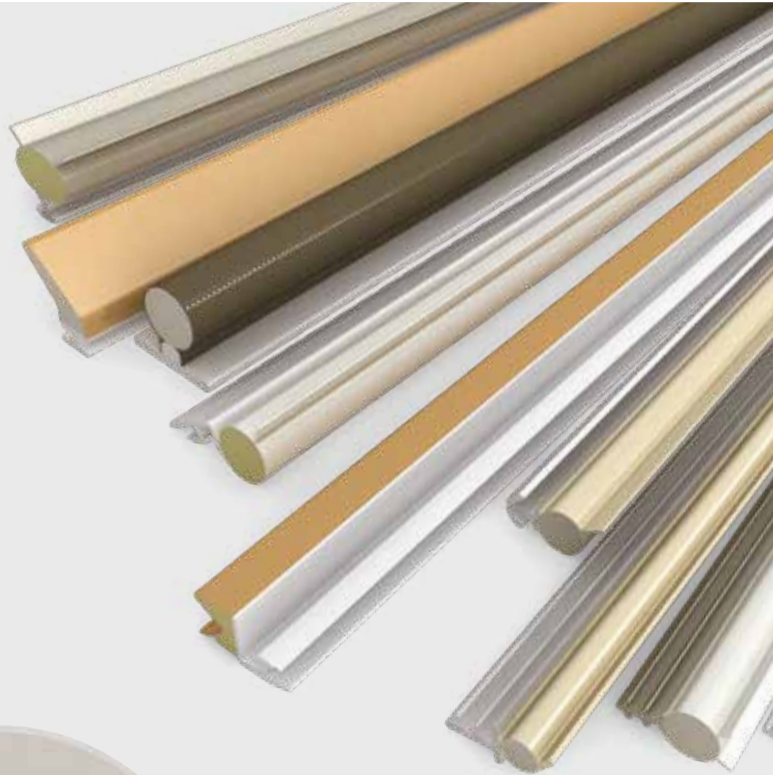
Foam-Tite hybrid seals – superior benefits:

- Product design versatility – based on extrusion
- Fast development and prototype turn around
- Low minimum order quantities – subject to volume and usage
- Fast design changes and modifications
- Low customisation costs
- Highest standards regarding intellectual property

BUILD YOUR OWN SEAL:

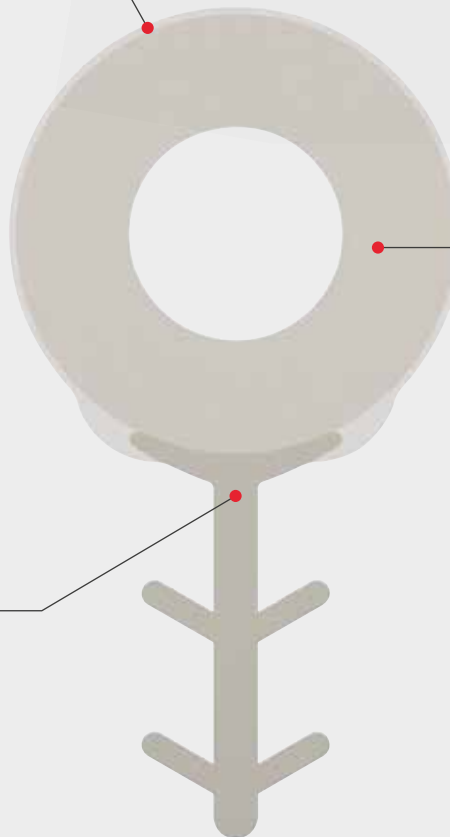
CUSTOM OPTIONS

We offer a comprehensive portfolio of bespoke materials to suit your individual needs, enabling you to quickly and easily design and build your perfect weatherseal. By selecting from the following options, this will enable you to specify a weatherseal to your exact requirements, ensuring optimum performance for your application.



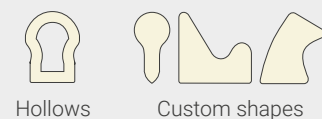
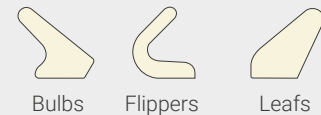
ADJUSTMENT SPACERS

- Flexible TPV
- PE film / liner on Clad FT range
- Pro Slip abrasion resistant coating
- Extruded coating process allows for the addition of unique features such as skin flaps



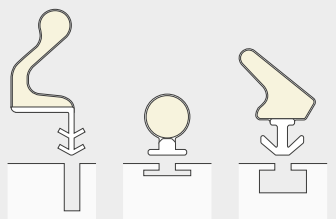
CARRIER OPTIONS

- Profiles to suit all types of applications
- Manufactured from polypropylene or filled polypropylene (glass or talc)
- Co-extruded materials – flexible TPVs and PP / TPV blends
- Custom colours available on request



FOAM OPTIONS

A range of shapes and sizes are available, including:



Kerf-slot

T-slot

Pocket-slot

BUILD YOUR OWN SEAL:

PRODUCT OPTIONS

CLAD FT

The Clad FT liner is a low-friction / easy clean embossed PE film that is applied to the surface of the foam profiles:

- Low-friction surface
- Extremely low compression force
- Superior recovery performance
- UV stability
- Effectively closed cell structure
- Available in black, white and beige as standard
- Easy clean surface



C2

The C2 weatherseal is manufactured from a soft compliant material enabling it to form a continuous corner whilst maintaining excellent sealing performance:

- Eliminates the need for welding or sealing mitred joints
- Easy to install – reduced costs and inventory
- Continuous seal – reduces air and water infiltration at corners and can be installed in one easy step continuously around the frame
- Soft TPV foam – low compression force
- Available in grey, black and beige as standard – custom colours available on request



PRO SLIP COATING

Pro Slip is a set of high-density polyethylene stripes that are added to the surface of the weatherseal to reduce surface friction, it features:

- Low-friction surface
- Extremely low compression force
- Superior recovery performance
- UV stability
- Effectively closed cell structure to ensure water can't penetrate
- Available in black, white and beige as standard – custom colours available on request
- Easy clean surface

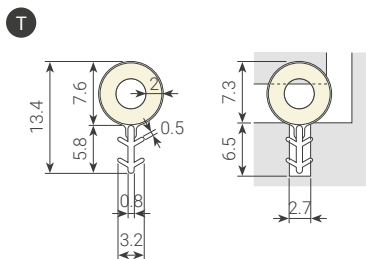


FOAM-TITE: EXAMPLE PROFILES

G = Groove; R = Rebate; S = Seal gap

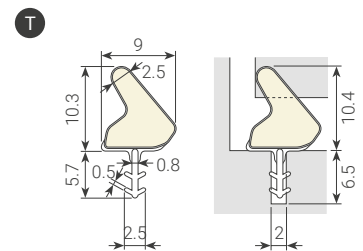
- T** Suitable for timber applications
- A** Suitable for aluminium applications
- P** Suitable for PVC applications (for guidance only)

FT12094



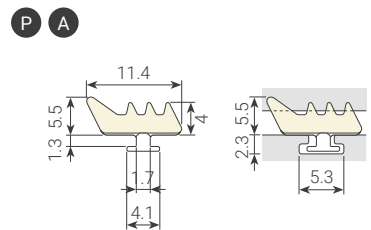
G: 2.7 x 6.5 mm
R: 7.5 mm
S: 3.5 – 6.0 mm

FT12300



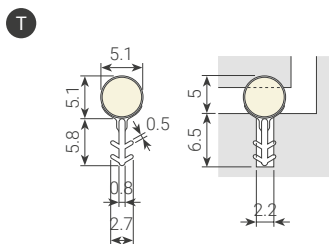
G: 2.0 x 6.5 mm
R: 9.0 mm
S: 5.0 – 8.5 mm

FT32106



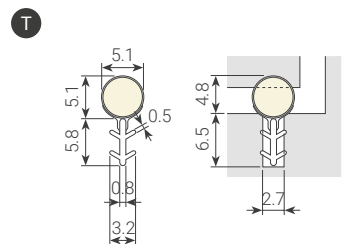
G: 4.6 mm
R: –
S: 2.5 – 4.5 mm

FT12299



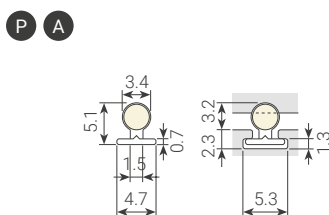
G: 2.2 x 6.5 mm
R: 5.0 mm
S: 2.5 – 4 mm

FT12298



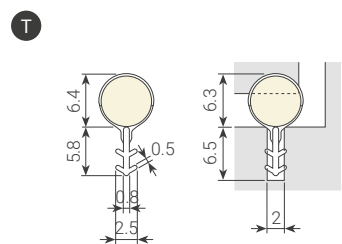
G: 2.7 x 6.5 mm
R: 5.0 mm
S: 2.5 – 4.0 mm

FT32005



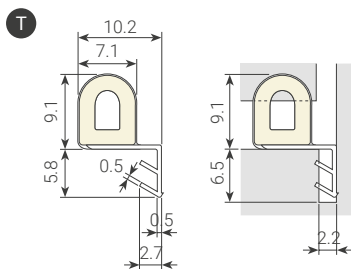
G: 5.3 mm
R: –
S: 1.5 – 2.75 mm

FT12804



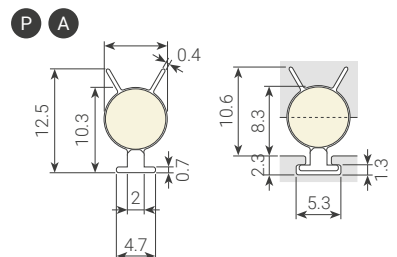
G: 2.0 x 6.5 mm
R: 6.5 mm
S: 3.0 – 5.1 mm

FT12274



G: 2.2 x 6.5 mm
R: 10.0 mm
S: 4.5 – 7.5 mm

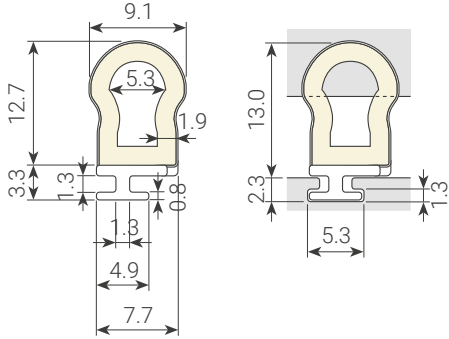
FT32316



G: 5.3 mm
R: –
S: 3.5 – 6.0 mm

FT32324

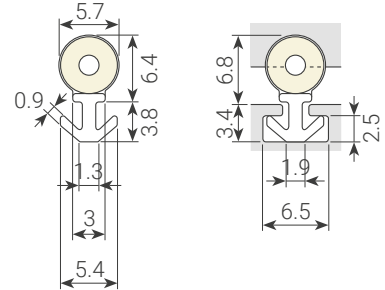
P A



G: 5.3 mm
R: –
S: 6.0 – 10.0 mm

FT52041

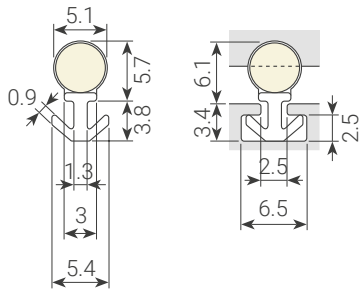
P



G: 2.5 x 3.5 mm
R: –
S: 2.75 – 4.5 mm

FT52033

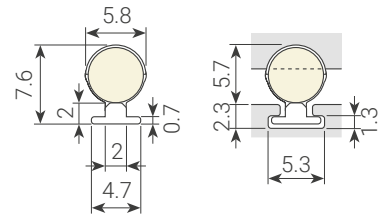
P A



G: 2.5 x 3.5 mm
R: –
S: 3.5 – 4.0 mm

FT32806

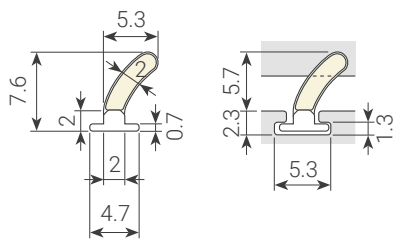
P A



G: 5.3 mm **R:** –
S: 2.5 – 4.5 mm

FT32390

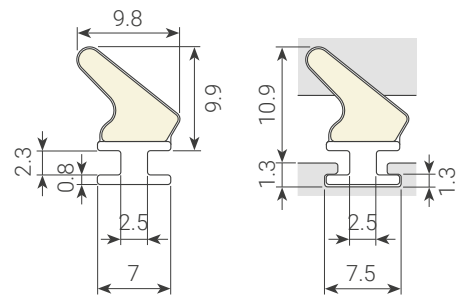
P



G: 5.3 mm
R: –
S: 2.5 – 4.5 mm

FT52047

P A



G: 7.5 mm **R:** –
S: 5.0 – 7.5 mm

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