

simplypractical

Components



FATH



2013



cover
seal

SPECIAL

| | |
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> General Information

Use of edge protectors

The use of edge protectors reduces the need for rework on sheet metal parts. The encased edges look more attractive, pose no risk of injury, and are protected against damage. The self-clamping edge protectors are pressed on by hand or tapped into place with a rubber or plastic hammer.

Wire and bar clamps – what's the difference?

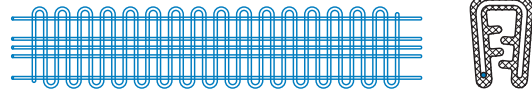
Embedded metal clamps allow edge protectors to be attached to surface elements without adhesive or rivets. The metal core gives the profile the necessary clamping force to grip the edge.

Edge protectors with **wire clamps** are flexible but have a relatively low clamping force.

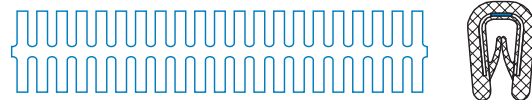
Edge protectors with **bar clamps** grip more tightly but have limited flexibility, so are unsuitable for tight bend radii.

'Split' clamps were developed to expand the range of application for profiles with bar clamps. They can be bent horizontally to the edge (centre bar – for curved or corrugated surface elements) or vertically (double bar – for surface elements with complex contours). Double bar clamps are also available as a single-sided split version.

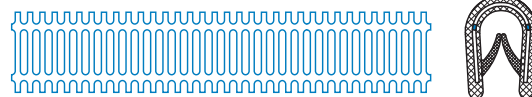
Wire clamp



Split centre bar clamp



Split double bar clamp



PVC, EPDM, NBR or CR – the right material for every purpose

PVC for clamp profiles

Polyvinyl chloride is a proven, very hard-wearing and ageing-resistant material. It does not corrode, does not depolymerize and has low flammability. These properties make it the material of choice for construction, medical technology and certain types of packaging. However, it releases dioxins when burned.

EPDM for sealing profiles

Ethylene propylene rubber is a synthetic rubber offering excellent resistance to environmental influences, chemicals, water vapor and solvents such as acetone or methanol. EPDM exhibits very good electrical insulating properties, has low permeability to water vapor and only becomes brittle at very low temperatures. Only its resistance to mineral oils and similar substances is limited.

NBR for oil-resistant sealing profiles

Nitrile butadiene rubber is also a sulphur-cured synthetic rubber. It is used where good oil resistance is required. NBR is resistant to heat, has good mechanical strength and returns easily to its original shape. However, NBR is flammable, cracks relatively quickly and does not have long-term resistance to ozone and weathering.

CR for oil-resistant sealing profiles

Polychloroprene is a synthetic rubber vulcanized with metal oxides. CR has good mechanical properties and is resistant to bending, high temperatures (up to 100°, hot water is not recommended), ageing, effects of weather and ozone. CR has slightly lower oil resistance than NBR. CR tends to crystallize at low temperatures.

> General Information

Sealing profiles: formability and compression

In choosing the size of sealing profiles, the ability of the material to return to its original shape must be considered. The compression set provides an indicator of permanent deformation.

To calculate this parameter a cylindrical specimen is compressed by for example 25% and stored at a specific temperature for a certain time. The temperature and the medium (usually air, but sometimes oils or other fluids) used for the compression test depend on the material being tested, its intended use and the test set-up (e.g. 24 h at 70°C for an EPDM profile intended for structural preservation). 30 minutes after the compressive force is removed, the height of the specimen is measured again at room temperature, which allows the permanent deformation to be calculated.

A compression set of 0% means that the specimen fully regained its original thickness (impossible in reality); a compression set of 100% means that the specimen was completely deformed during the test and exhibits no return to its original shape.

The calculation is based on the following formula:

$$CS (\%) = (L_0 - L_2) / (L_0 - L_1) \times 100\%$$

Where:

CS = compression set (%)

L0 = height of specimen before test

L1 = height of specimen during test (spacer)

L2 = height of specimen after test

How are FATH sealing and cover profiles supplied?

For details of delivery units for our profiles, please refer to the relevant table in the catalogue section.

Profiles are usually supplied on cardboard spindles.

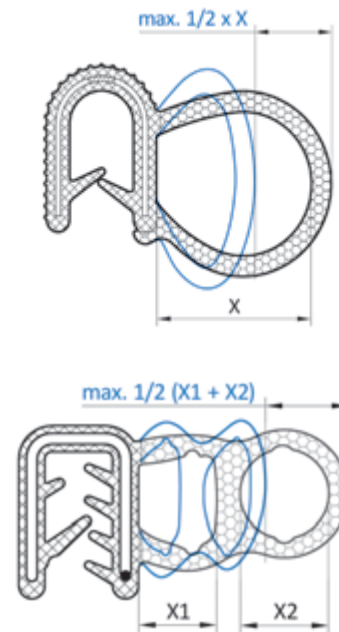
Each spindle holds the specified meterage; several spindles may be delivered with an intermediate layer.

Example: 2 x 50 m = two spindles of 50 m, with intermediate layer

For PVC / foam rubber there may be up to two joins per spindle or length.

On request:

At the bottom of each catalogue page you will see a blue box with the words "Extras on request". The features listed here, e.g. EMC film (electromagnetic compatibility) are available on request. Please agree the order quantity with our sales advisor.



For our EPDM / foam rubber sealing profiles we recommend a compression of 30% - 40%. The 50% mark should not be exceeded

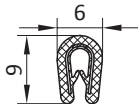
Customized frames and rings manufactured with injection moulding, film vulcanization, welding or bonding are also available on request.



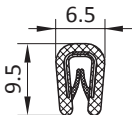
> Edge Protectors

Description For encasing the edges of surface elements; with split clamp; self-clamping

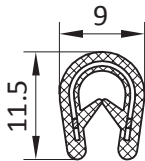
Material Edge protector: PVC 78 Shore A , PVC 57 Shore A transparent 
Clamp: Steel



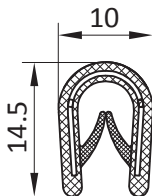
| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|-----------------------------|
| Centre bar | black | 1.0 – 2.0 | 100 | 087EPE01911 |
| Centre bar | white | 1.0 – 2.0 | 100 | 087EPE01931 |
| Centre bar | grey | 1.0 – 2.0 | 100 | 087EPE01711 |



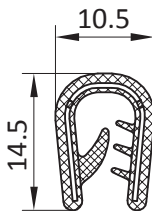
| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|--------|---------------------|-----------------|-----------------------------|
| Centre bar | black | 1.0 – 2.0 | 100 | 087EPE02911 |
| Centre bar | white | 1.0 – 2.0 | 100 | 087EPE02931 |
| Centre bar | silver | 1.0 – 2.0 | 100 | 087EPE02941 |



| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|-----------------------------|
| Double bar | black | 1.0 – 2.5 | 100 | 087EPE03911 |
| Double bar | black | 2.0 – 4.0 | 100 | 087EPE03912 |



| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|------------|---------------------|-----------------|-----------------------------|
| Double bar | black | 1.0 – 4.0 | 100 | 087EPE04911 |
| Double bar | anthracite | 1.0 – 4.0 | 100 | 087EPE04731 |
| Double bar | light grey | 1.0 – 4.0 | 100 | 087EPE04721 |
| Double bar | white grey | 1.0 – 4.0 | 100 | 087EPE04921 |



| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|-----------------------------|
| Double bar | black | 2.0 – 5.0 | 100 | 087EPE05911 |

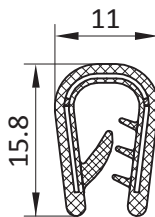
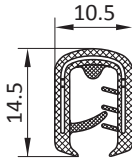
Specials on request:

Edge protector: Other colors, butyl sealant
Clamp: Stainless steel, non-split, single-sided split
Other cross-sections: To suit your application



Description For encasing the edges of surface elements; with split clamp; self-clamping

Material Edge protector:
PVC 78 Shore A ☒, PVC 57 Shore A transparent ☒
Clamp: Steel



| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|-----------------------------|
| Double bar | grey | 2.0 – 5.0 | 100 | 087EPE06711 |

| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|-----------------------------|
| Double bar | black | 1.0 – 2.5 | 100 | 087EPE07911 |
| Double bar | black | 2.0 – 4.0 | 100 | 087EPE07912 |
| Double bar | black | 4.0 – 6.0 | 100 | 087EPE07913 |

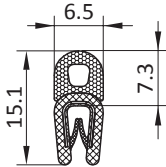
Specials on request:

Edge protector: Other colors, butyl sealant
Clamp: Stainless steel, non-split, single-sided split
Other cross-sections: To suit your application

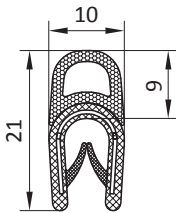


Description Combination of edge protector and sealing profile; with split clamp; self-clamping

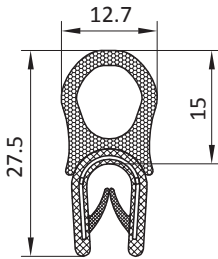
Material Edge protector: PVC 78 Shore A ☒, PVC 57 Shore A transparent ☒
 Clamp: Steel
 Sealing profile: Foam rubber EPDM ☒



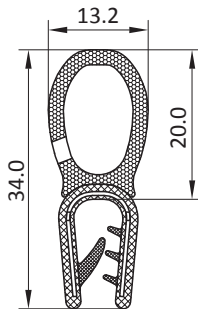
| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|------------------------------|
| Centre bar | black | 1.0 – 2.0 | 100 | 087SPET01911 |



| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|------------------------------|
| Double bar | black | 1.0 – 4.0 | 50 | 087SPET02911 |



| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|------------------------------|
| Double bar | black | 1.0 – 4.0 | 50 | 087SPET03911 |



| Clamp | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|------------------------------|
| Double bar | black | 1.0 – 2.5 | 50 | 087SPET04911 |
| Double bar | black | 2.0 – 4.0 | 50 | 087SPET04912 |
| Double bar | black | 4.0 – 6.0 | 50 | 087SPET04913 |

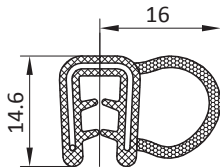
Specials on request:

Edge protector: Other colors, butyl sealant
 Sealing profile: Lubricant varnish, flocking, EMC film
 Clamp: Stainless steel, non-split, single-sided split
 Other cross-sections: To suit your application

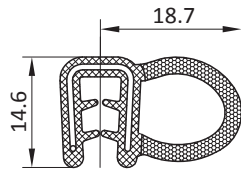


Description Combination of edge protector and sealing profile; with wire clamp / **non-split** clamp; self-clamping

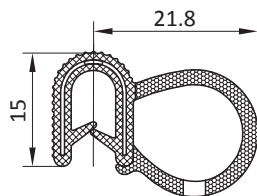
Material Edge protector:
Soft rubber EPDM or CR
Clamp: Steel
Sealing profile: Foam rubber EPDM or CR



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|------------|-------|-------|-------------------|-----------------|------------------------------|
| EPDM / PVC | wire | black | 1.5 – 3.0 | 2 x 50 | 087SPES02911 |



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | wire | black | 1.5 – 3.0 | 4 x 25 | 087SPES03911 |



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|------------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | centre bar | black | 1.0 – 3.5 | 50 | 087SPES06911 |
| CR / CR | centre bar | black | 1.0 – 3.5 | 3 x 25 | 087SPES06912 |

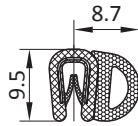
Specials on request:

Edge protector: Butyl sealant
Sealing profile: Lubricant varnish, flocking, EMC film
Clamp: Stainless steel, split
Other cross-sections: To suit your application

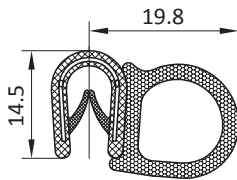


Description Combination of edge protector and sealing profile; with split clamp; self-clamping

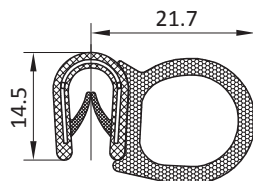
Material Edge protector:
PVC 78 Shore A ☒, PVC 57 Shore A transparent ☒
Clamp: Steel
Sealing profile: Foam rubber EPDM or NBR ☒



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|------------|------------|-------|-------------------|-----------------|------------------------------|
| EPDM / PVC | centre bar | black | 1.0 – 2.0 | 100 | 087SPES01911 |



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|------------|------------|-------|-------------------|-----------------|------------------------------|
| EPDM / PVC | double bar | black | 1.0 – 4.0 | 50 | 087SPES04911 |



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|------------|------------|-------|-------------------|-----------------|------------------------------|
| EPDM / PVC | double bar | black | 1.0 – 4.0 | 50 | 087SPES05911 |

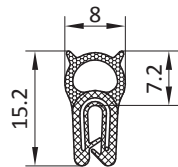
Specials on request:

Edge protector: Other colors, butyl sealant
Sealing profile: Lubricant varnish, flocking, EMC film
Clamp: Stainless steel, non-split, single-sided split
Other cross-sections: To suit your application

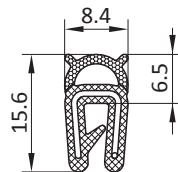


Description Combination of edge protector and sealing profile; with wire clamp or **non-split** clamp; self-clamping

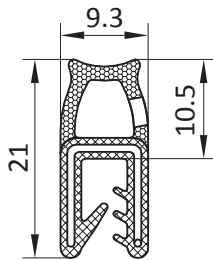
Material Edge protectors:
Soft rubber EPDM or NBR
Clamp: Steel
Sealing profile: Foam rubber EPDM or NBR



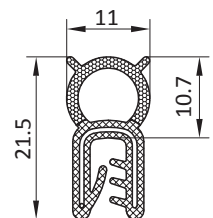
| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | wire | black | 0.5 – 1.5 | 2 x 50 | 087SPET05911 |



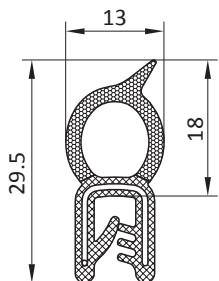
| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | wire | black | 1.0 – 2.0 | 2 x 50 | 087SPET06911 |



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|------------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | centre bar | black | 1.0 – 3.0 | 2 x 50 | 087SPET07911 |



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | wire | black | 1.0 – 3.0 | 2 x 50 | 087SPET08911 |
| NBR / NBR | wire | black | 1.0 – 3.0 | 2 x 50 | 087SPET08912 |



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | wire | black | 1.0 – 2.5 | 2 x 50 | 087SPET09911 |
| EPDM / EPDM | wire | black | 2.0 – 4.0 | 2 x 50 | 087SPET09912 |

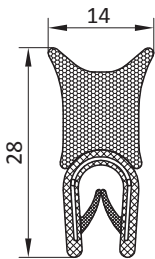
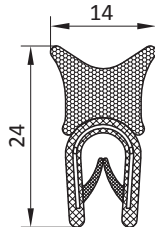
Specials on request:

Edge protectors: Other colors, butyl sealant
Sealing profile: Lubricant varnish, flocking, EMC film
Clamp: Stainless steel, split
Other cross-sections: To suit your application



Description Combination of edge protector and sealing profile; with wire clamp / split double bar clamp; self-clamping

Material Edge protectors: PVC 78 Shore A ☒, PVC 57 Shore A transparent ☒
 Clamp: Steel
 Sealing profile: Foam rubber EPDM ☒



| Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------|---------------------|-----------------|------------------------------|
| black | 1.0 – 4.0 | 50 | 087SPET10911 |

| Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------|---------------------|-----------------|------------------------------|
| black | 1.0 – 4.0 | 50 | 087SPET11911 |

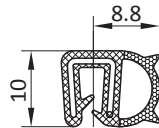
Specials on request:

Edge protectors: Other colors, butyl sealant
 Sealing profile: Lubricant varnish, flocking, EMC film
 Clamp: Stainless steel, non-split, single-sided split,
 Other cross-sections: To suit your application

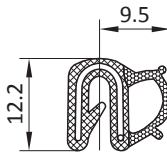


Description Combination of edge protector and sealing profile; with wire clamp; self-clamping

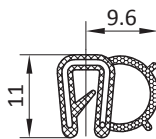
Material Edge protector:
Soft rubber EPDM or NBR
Clamp: Steel
Sealing profile: Foam rubber EPDM or NBR



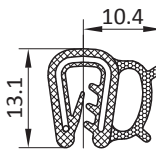
| Material | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|---------------------|-----------------|------------------------------|
| EPDM / EPDM | black | 1.0 – 2.5 | 100 | 087SPES07911 |



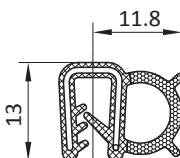
| Material | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|---------------------|-----------------|------------------------------|
| EPDM / EPDM | black | 0,8 – 2.5 | 2 x 50 | 087SPES08911 |



| Material | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|---------------------|-----------------|------------------------------|
| EPDM / EPDM | black | 1.0 – 2.0 | 2 x 50 | 087SPES09911 |



| Material | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|---------------------|-----------------|------------------------------|
| EPDM / EPDM | black | 2.0 | 2 x 50 | 087SPES10911 |



| Material | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|---------------------|-----------------|------------------------------|
| EPDM / EPDM | black | 2.0 | 2 x 50 | 087SPES11911 |
| NBR / NBR | black | 2.0 | 2 x 50 | 087SPES11912 |

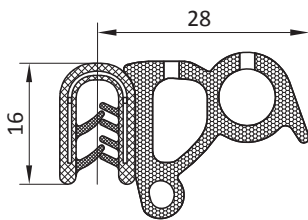
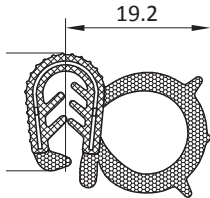
Specials on request:

Edge protector: Other colors, butyl sealant
Sealing profile: Lubricant varnish, flocking, EMC film
Clamp: Stainless steel
Other cross-sections: To suit your application



Description Combination of edge protector and sealing profile; with split double bar clamp; self-clamping

Material Edge protector:
Soft rubber EPDM or PVC 78 Shore A ☒
Clamp: Steel
Dichtprofil: Foam rubber EPDM ☒



| Material | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|---------------------|-----------------|------------------------------|
| EPDM / EPDM | black | 2.0 – 4.0 | 3 x 25 | 087SPES12911 |
| EPDM / EPDM | black | 4.0 – 6.0 | 3 x 25 | 087SPES12912 |

| Material | Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|------------|-------|---------------------|-----------------|------------------------------|
| EPDM / PVC | black | 1.0 – 2.5 | 50 | 087SPES13911 |
| EPDM / PVC | black | 2.5 – 4.0 | 50 | 087SPES13912 |
| EPDM / PVC | black | 4.0 – 6.0 | 50 | 087SPES13913 |

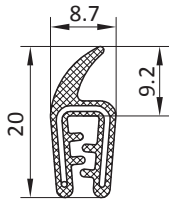
Specials on request:

Edge protector: Other colors, butyl sealant
Sealing profile: Lubricant varnish, flocking, EMC film
Clamp: Stainless steel, non-split, single-sided split
Other cross-sections: To suit your application

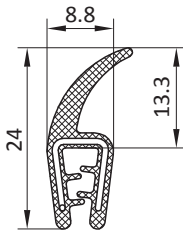


Description Edge sealing profile;
with wire clamp; self-clamping

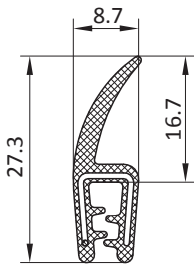
Material Edge protector- /sealing profile: soft rubber EPDM ☒
Clamp: Steel



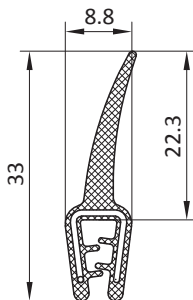
| Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------|---------------------|-----------------|------------------------------|
| black | 1.0 – 2.0 | 2 x 50 | 087SPET12911 |



| Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------|---------------------|-----------------|------------------------------|
| black | 1.0 – 2.5 | 3 x 50 | 087SPET13911 |



| Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------|---------------------|-----------------|------------------------------|
| black | 1.0 – 3.0 | 2 x 50 | 087SPET14911 |







| Color | Clamping range [mm] | Pack Quant. [m] | Part # |
|-------|---------------------|-----------------|------------------------------|
| black | 1.0 – 2.5 | 50 | 087SPET15911 |

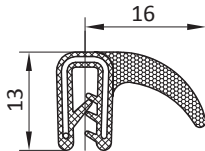
Specials on request:

Edge protector: Other colors, butyl sealant
Sealing profile: Lubricant varnish, flocking, EMC film
Clamp: Stainless steel

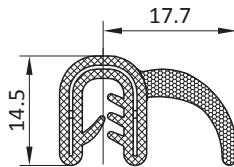


Description Combination of edge protector and sealing profile; with wire clamp or split double bar clamp; self-clamping

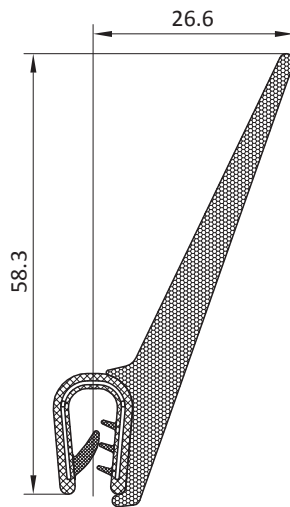
Material Edge protector:
soft rubber EPDM  or
PVC 78 Shore A , PVC 57 Shore A transparent 
Clamp: Steel
Sealing profile: Foam rubber EPDM 



| Material | Clamp | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|-------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | wire | black | 1.0 – 2.0 | 2 x 50 | 087SPES14911 |



| Material | Clamp (1) | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|-------------|------------|-------|-------------------|-----------------|------------------------------|
| EPDM / EPDM | double bar | black | 1,25 – 2.0 | 2 x 50 | 087SPES15911 |



| Material | Clamp (2) | Color | Clamp. range [mm] | Pack Quant. [m] | Part # |
|------------|------------|-------|-------------------|-----------------|------------------------------|
| EPDM / PVC | double bar | black | 1.0 – 2.5 | 25 | 087SPES16911 |
| EPDM / PVC | double bar | black | 2.0 – 4.0 | 25 | 087SPES16912 |
| EPDM / PVC | double bar | black | 4.0 – 6.0 | 25 | 087SPES16913 |

- (1) single-sided split
- (2) split

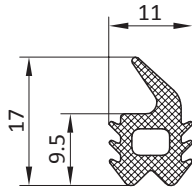
Specials on request:

Edge protector: Other colors, butyl sealant
Sealing profile: Lubricant varnish, flocking, EMC film
Clamp: Split, non-split, single-sided split

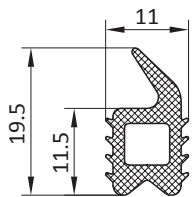


Description For sealing doors and flaps; installed by pressing into 10 mm groove or sealing channel

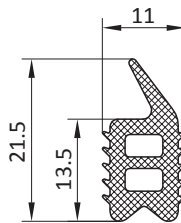
Material PVC 57 Shore A ☒



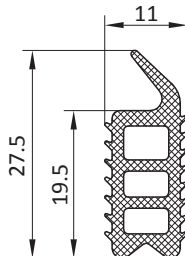
| Color | Pack Quant. [m] | Part # |
|-------|-----------------|------------------------------|
| black | 7 x 20 | 087SPST01911 |



| Color | Pack Quant. [m] | Part # |
|-------|-----------------|------------------------------|
| black | 7 x 20 | 087SPST02911 |



| Color | Pack Quant. [m] | Part # |
|-------|-----------------|------------------------------|
| black | 7 x 20 | 087SPST03911 |



| Color | Pack Quant. [m] | Part # |
|-------|-----------------|------------------------------|
| black | 5 x 20 | 087SPST04911 |

Specials on request:

Door sealing profile PVC: Other colors

simplypractical

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