



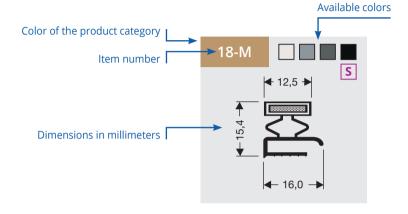
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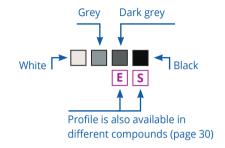
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Instructions for using the illustrations

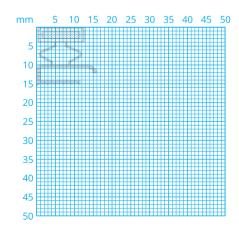




Place a profile cross-section in the upper left corner and take a picture. Send the picture via WhatsApp, email or upload via the website.



WhatsApp + 31 6 30 50 3000



All profile drawings in the catalog are shown on the scale 1:1.

# DSU

# **About us**



Since the start, in the 1970's, DSU has grown to become a company specialized in the manufacturing of bespoke refrigerator and freezer seals for commercial refrigeration equipment.

With our products we serve commercial refrigeration and kitchen maintenance companies. We also deliver our (magnetic) seals to refrigeration equipment manufacturers and spare parts dealers.

# Always a suitable solution

"Always a suitable solution" that is our goal. With over 220 different seal profiles available from stock. DSU is the leading manufacturer of bespoke refrigerator and freezer seals on the European market.

Are you unable to find the profile you are searching for or do you have any doubts about the matching profile? Send us a photograph of the cross section via email or WhatsApp. We are glad to help you find the right profile or a suitable alternative.

### Search by brand

An overview with the seal profiles used by brand you can find on our website.

### **Fast delivery**

We have our own in-house manufacturing department. This enables us to manufacture bespoke seals fast. Our regular lead-time is 2 – 4 working days.

Express orders are shipped the same day if received before noon (CET). Express orders are subject to a surcharge with a maximum of 10 seals per order.

### Quality

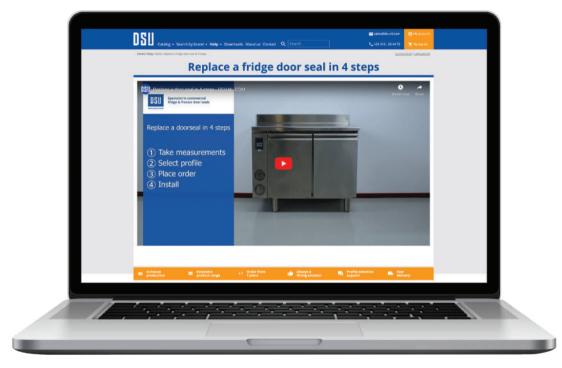
Competent employees manufacture bespoke seals with utmost care and precision so they will fit perfectly in the door or drawer.

We exclusively utilize materials from approved suppliers. The chance of a manufacturing defect is reduced to an absolute minimum through our quality assurance system.

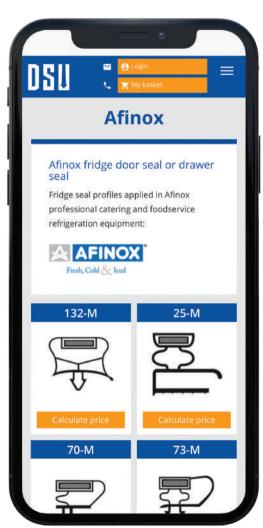
### **Serial production**

Large numbers of seals (50+) with similar dimensions we can mass produce at attractive prices. Contact our sales department with your inquiry.





Watch the instructional videos on our website



**Profiles overview by brand** 

# Replace a seal in four steps

DSU

- 1 Take measurements
- 2 Profile selection
- ③ Order
- (4) Installation



See instructional videos on our website under "help" or scan the QR code

### 1 Take measurements



Taking correct measurements is important when ordering made-to-measure door seals. There are three methods to determine the seal measurements.

- A size (Outside-to-Outside)
- B size (Magnet-to-Magnet)
- C size (Dart-to-Dart)

#### A size

The outside-to-outside measurements (A size) are most commonly used to determine the fridge seal dimensions (width x height). A size example, see page 23. We advise to take outside-to-outside measurements while the seal is still fitted in the door or drawer.

The A size can be applied for any type of fridge seal.

#### B size

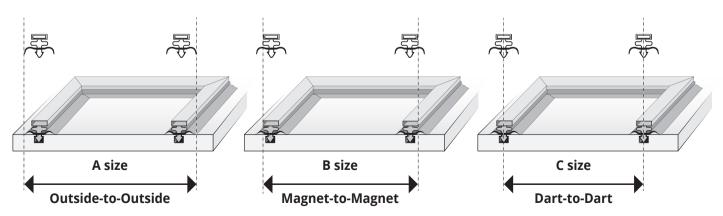
Magnet-to-Magnet (B size) is measured from outside of the seal magnet to outside of the seal magnet on the opposite side.

This method is not commonly used.

#### C size

For push-in (dart type) profiles we advise to take the dart-to-dart (C size) measurements. C size example, see page 19. This is commonly referred to as the centreline measurements. In practice this means you measure inside the door or drawer from the inside edge of the slot on one side to the outside edge of the slot on the other side.

This is the preferred method because it gives the most precise measurements.



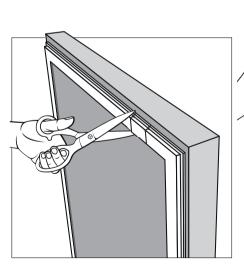


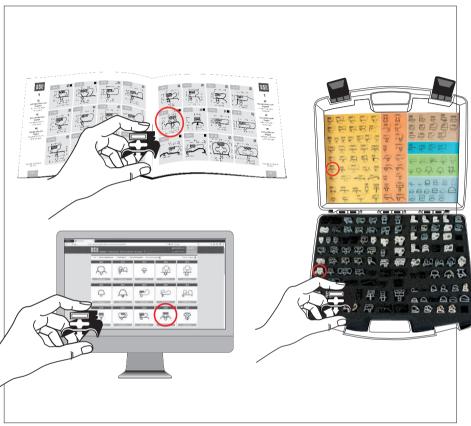
# 2 Profile selection



Identify the seal profile with the fridge seal cross-section. You can see the cross-section by cutting the seal at the top side using scissors or a craft knife.

If you know the equipment brand you can find all the profiles used by brand on our website. Brand not known? Compare the cross-section with the drawings (scale 1:1) in our catalogue or use our professional sample case.





### Professional sample case

We have compiled a professional sample case for engineers. The sample case contains over 100 of the most commonly used seal / gasket profiles. This sample kit can be ordered on our webportal.

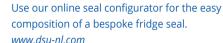
Are you unable to find the profile you are searching for? Or do you have any doubts about the matching profile? Send us a photograph of the cross-section via WhatsApp (+31 6 30 50 3000), email or through our website www.dsu-nl.com. We are glad to help you find the right profile or a suitable alternative.

It is also possible to send a cross-section of the seal by post along with our order form. The order form can be found on our website.

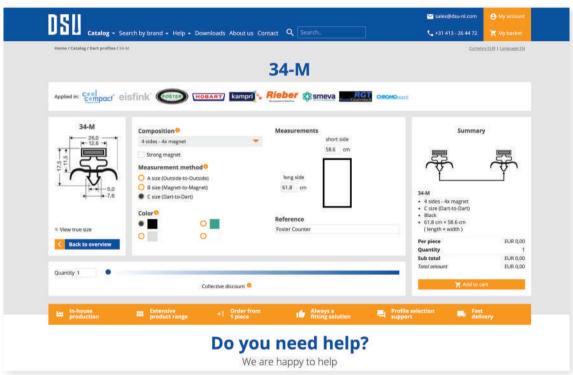
#### www.dsu-nl.com/en-EU/downloads



## ③ Order



- E-mail sales@dsu-nl.com
- Fax +31 413 269 068
- Mail Neutronenlaan 1, 5405 NG Uden, The Netherlands
- Phone +31 413 264 472







# (4) Installation

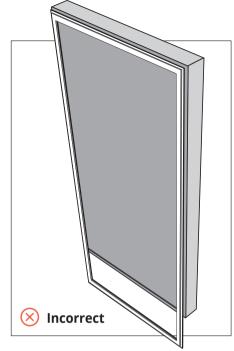


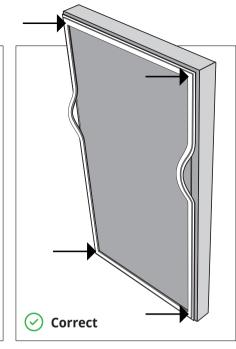
# Before installation

- Take the seal from the box upon receipt.
- Always hold the seal by its corners to keep the magnetic strip from breaking.
- · Lay down and unfold the seal.
- Allow the seal to reach the ambient temperature
- Wrinkles and creases (caused by transportation or storage) can be removed by gently warming the seal with a blowdryer or heat gun.
- Gently remove the old seal from the door or drawer.
- Clean the door or drawer tracking and cabinet face thoroughly. Use a clean cloth and professional fridge seal cleaner.
- Disinfect the door or drawer tracking and cabinet face with an approved disinfectant.
   Let it sit for 30 seconds and wipe dry with a clean cloth before placing the new seal.

#### Installation

- Place the corners of the seal first followed by the short and long sides, this to keep the seal from stretching.
- With push-in (dart) seal profiles: check all the way around if the seal is fully secured in the tracking.
- Remove any creases or cracks by gently warming the seal with a blow-dryer or heat gun.





- Directly after installation a magnetic seal can have less power of attraction. It can take several weeks for the magnet to reach its optimal power of attraction.
- In case a corner breaks during installation this can be repaired by using superglue.

# Check the following points in case the seal does not seal the fridge correctly after installation

Are the profile and measurements ordered correctly?

- Is the seal properly pushed into the tracking all the way around?
- Have all creases or cracks been removed with a blow dryer or heat gun?
- Is the door, drawer or lid not crooked or twisted?
- Does the cabinet face contain a counter magnet that repels the seal?
- Does the seal wrench on the hinge side? If so, put the door without hinges against the cabinet and re-install the hinges.

### Maintenance

1

The life span of a fridge seal will be extended when properly cleaned on a daily basis.
Fats & Food spills cause the material that seals are made of to dry out and get brittle which then cause it to rip easily. Cleaning daily can prevent this from happening. Be mindful that an intact and clean seal is also important for general kitchen hygiene and food safety.

#### Advice

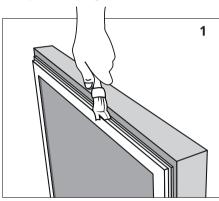
A split, worn or broken fridge seal has a significant impact on the cooling capacity and energy consumption of refrigeration equipment. Without a proper seal, the refrigerator or freezer "leaks" cold air causing the cooling compressor to run more frequently or even continuously in order to keep the cabinet contents at the set temperature. Maintenance of fridge seals is important for food safety; it avoids maintenance cost and reduces the energy consumption up to 25%.

#### General

Use a soft dry cloth with a professional fridge seal cleaner or a heavily diluted water-based cleaning agent for maintenance. Be mindful that aggressive cleaning agents, such as all-purpose cleaners, santitisers, oven cleaners and aggressive degreasers cause irreparable damage when used on fridge seals.

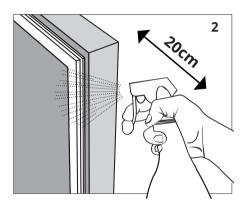
### Cleaning

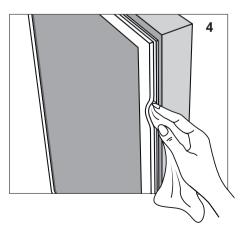
1 Remove any visible forms of contamination such as crumbs from in-between the folds of the seal. Use a brush or a clean dry cloth. Don't use any sharp objects to get in-between the folds because this can cause irreparable damage to the seal.



3

- 2 Apply the (diluted) cleaner on the seal with the spray bottle or a cloth.
- 3 Let it sit for 30 seconds.
- 4 Wipe dry with a clean dry cloth, also between the folds. Repeat treatment until the seal is entirely clean.





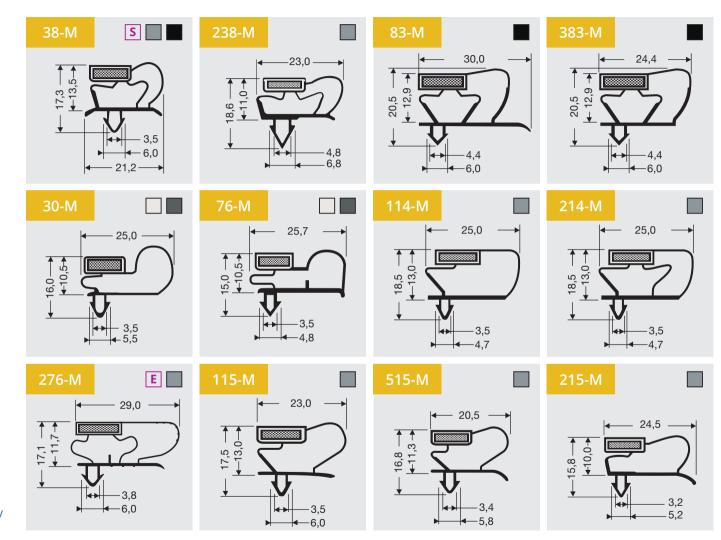


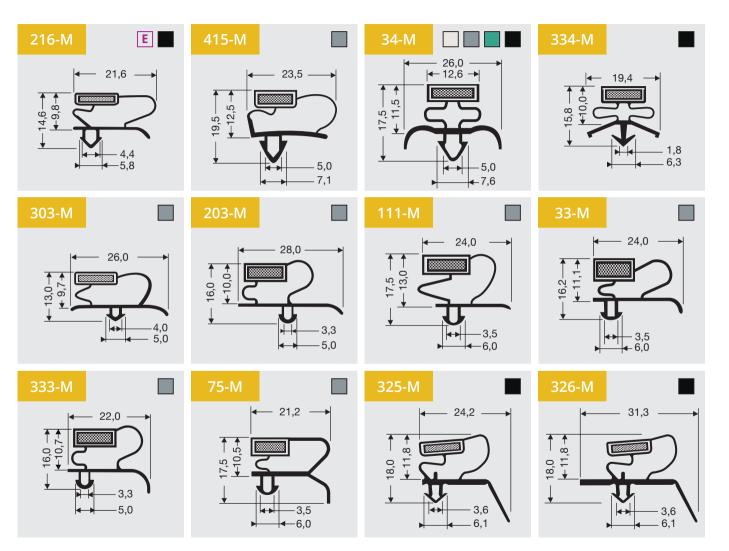




# Dart profiles with magnet

Available as frame or profile length.







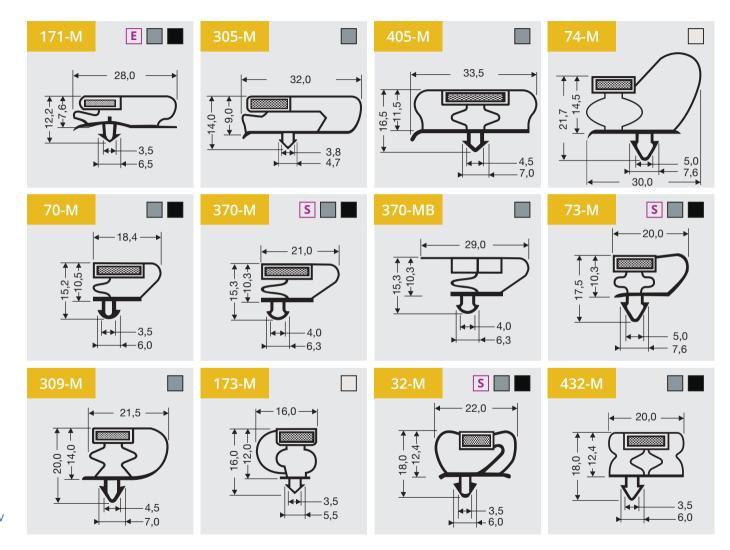
# Dart profiles with magnet

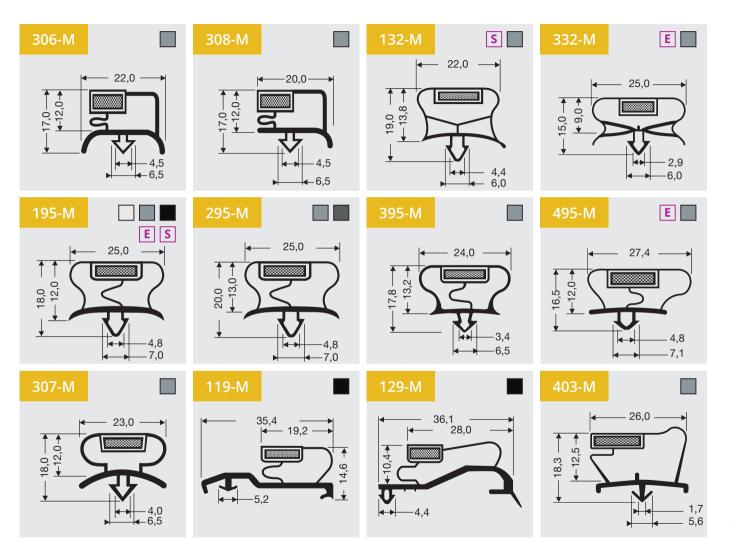
Available as frame or profile length.



# Dart profiles with magnet

Available as frame or profile length.







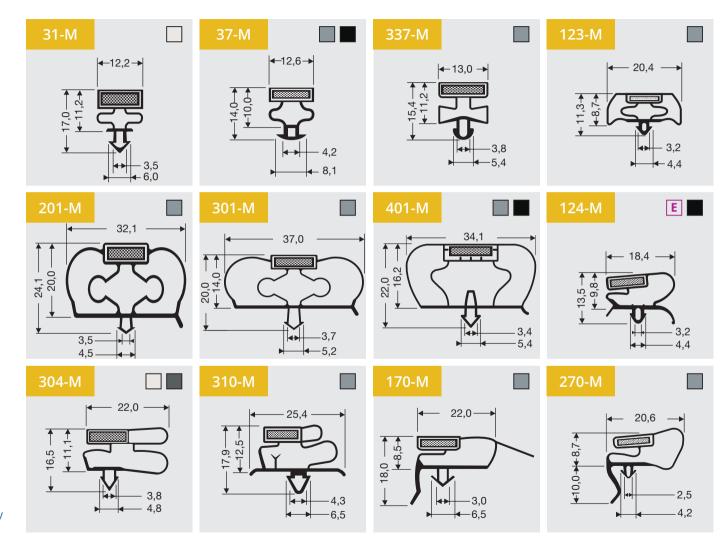
# Dart profiles with magnet

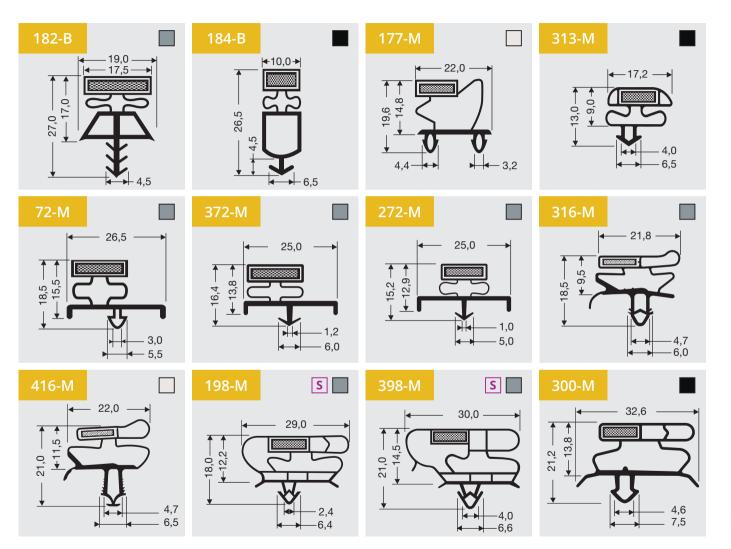
Available as frame or profile length.



# Dart profiles with magnet

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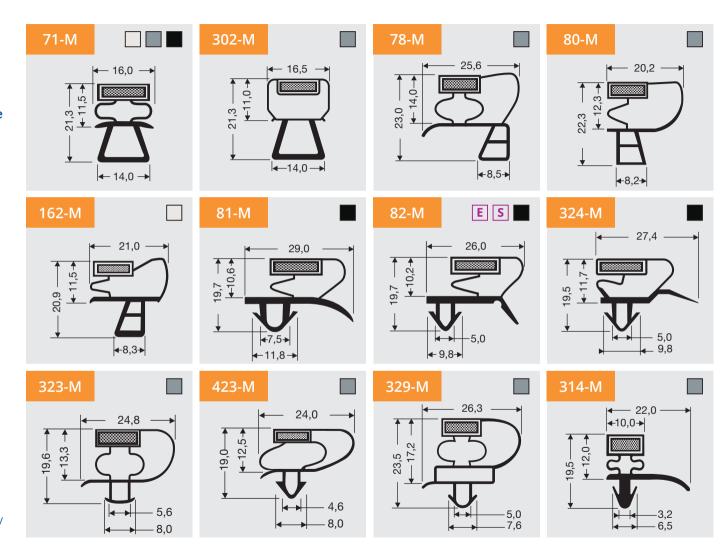


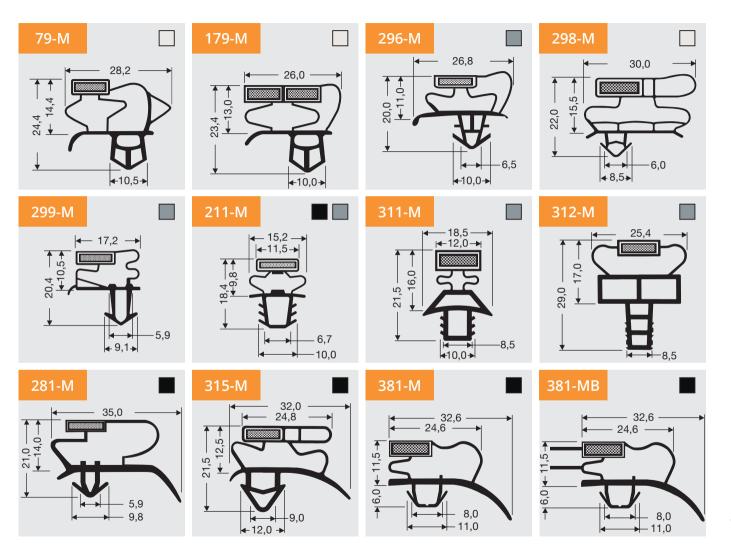
# Dart profiles with magnet

Available as frame or profile length.



Dart profiles, large dart with magnet Available as frame or profile length.



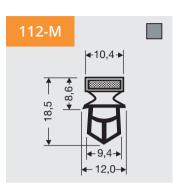


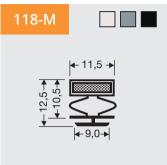


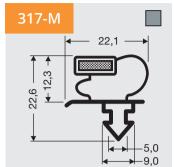
Dart profiles, large dart with magnet Available as frame or profile length.

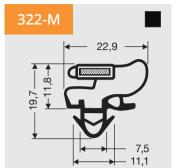


Dart profiles, large dart with magnet Available as frame or profile length.









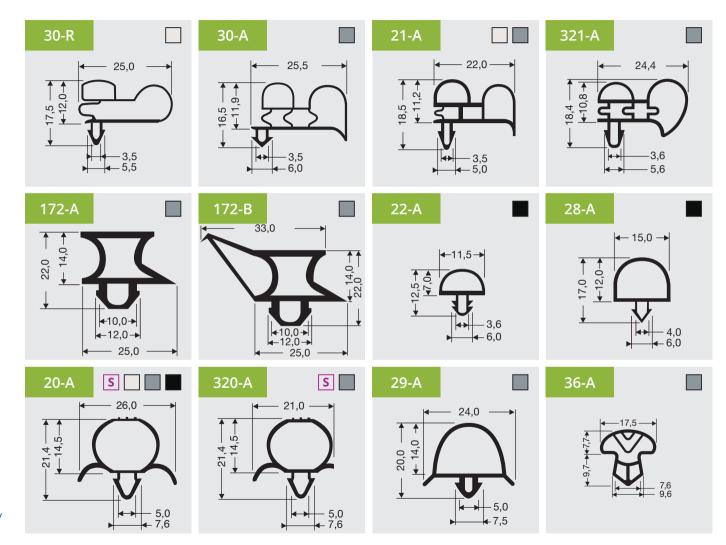
Visit our website for all profiles and quotations

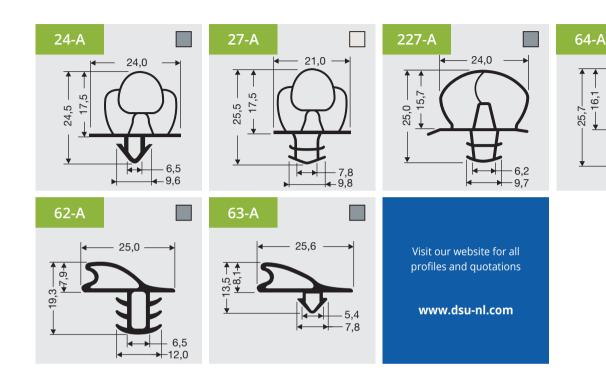
www.dsu-nl.com





**Dart profiles without magnet** Available as frame or profile length.







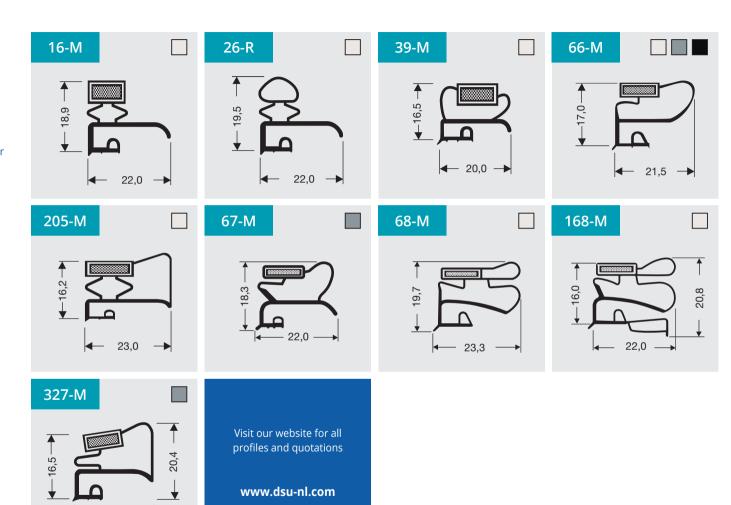
**←** 20,0 **→** 

- 7,8 -11,8 **Dart profiles without magnet** Available as frame or profile length.



# Lip profiles with magnet

Available as frame or profile length.



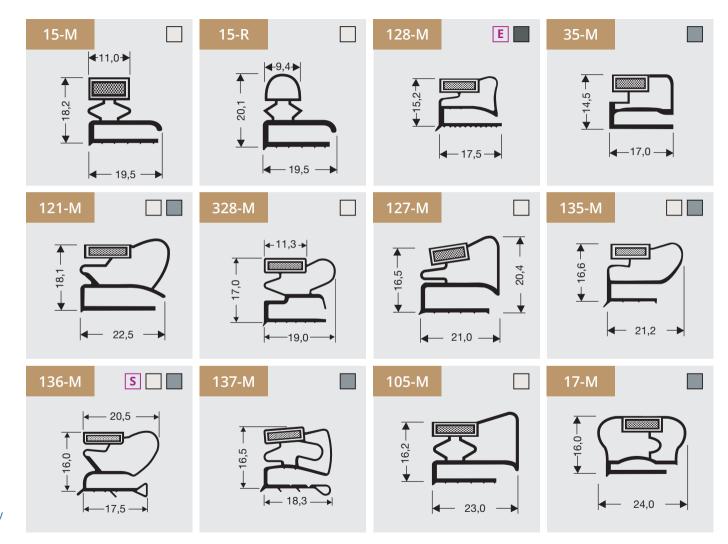
Copyright 2022 DSU BV September 2022 21,0

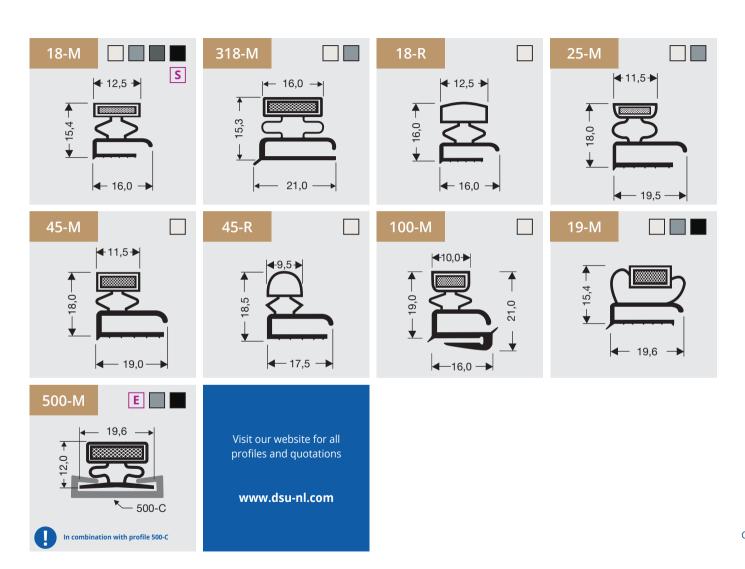




# Flap profiles with magnet

Available as frame or profile length.





DSU

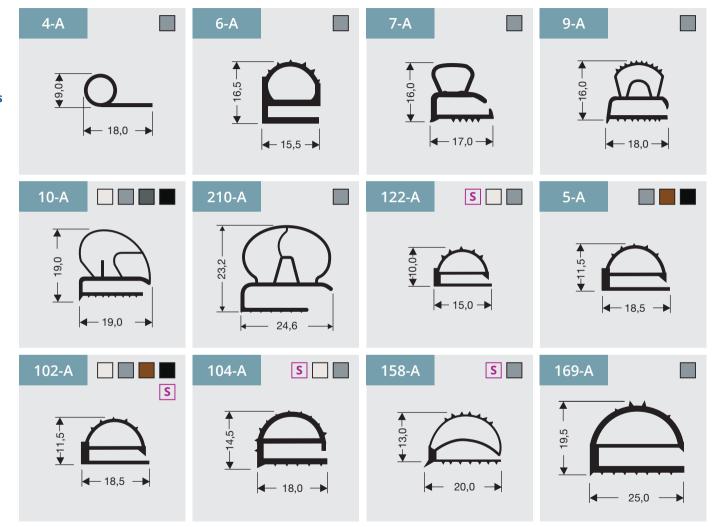
5

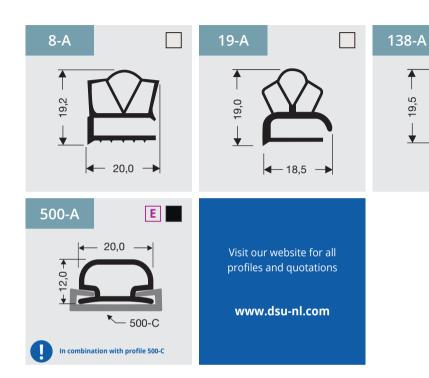
# Flap profiles with magnet

Available as frame or profile length.



Compression profiles without magnet Available as frame or profile length.







23-A

19,5

**←** 18,4 **→** 

6

**Compression profiles** without magnet Available as frame or profile length.



**Profiles which can** be counter-welded



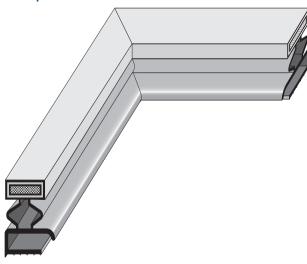
Attention: Check carefully if you are dealing with a counter (welded) profile. These are very rarely used.

### Profiles which can be counter-welded

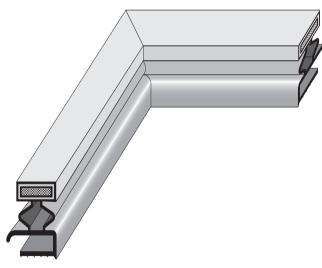
With counter welding, the profile is mirrored horizontally. The flap profiles are open outwards in the counter-welded variant instead of inwards which is standard. The result for dart type profiles is that the magnet which is positioned on the outside of the seal as a standard is then positioned on the inside.

These profiles can be produced counter-welded as a standard. On request, we can investigate for the other profiles in this catalogue to be offered as counter-welded.

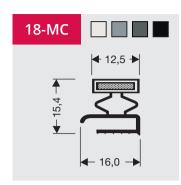
### **Example**

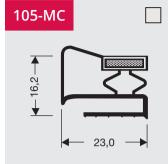


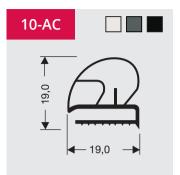
Normal 18-M Flap open to the inside



Contra 18-MC Flap open to the outside









profiles and quotations

www.dsu-nl.com

**Profiles which can** be counter-welded



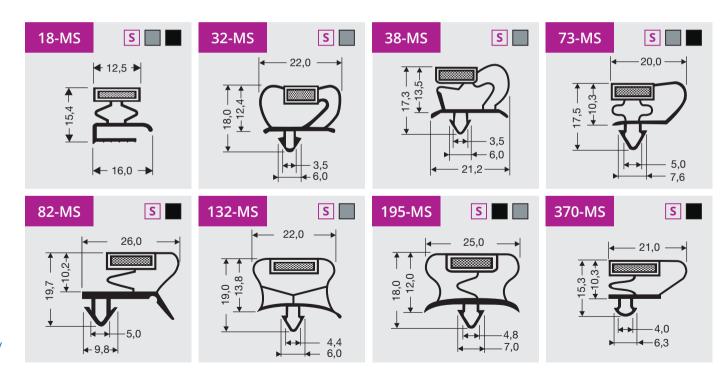
Profiles made of special compounds Available as frame or profile length.

# **Soft PVC profiles (-MS)**

Profiles with the extension –MS are made of a special blend of materials. Seals made of soft PVC have several advantages compared to regular PVC, of which the most important:

- Less sensitive to the effects of fats.
- Temperature range from -30 °C to 60 °C

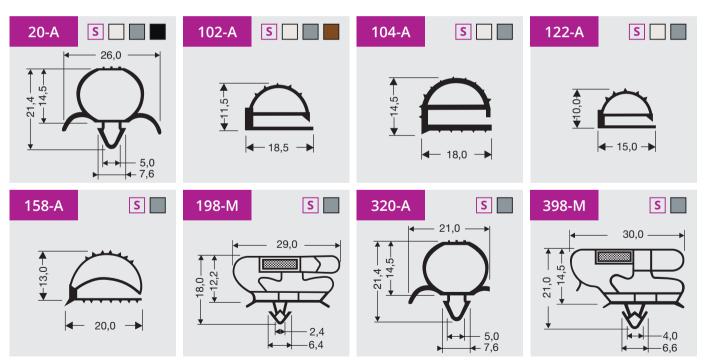
For these reasons we advise this type of seals for the use in Shock Freezers, Blast Chillers, Freezer room doors and for sealing doors and drawers of refrigeration equipment with a high usage intensity.





# Profiles made of special compounds Available as frame or profile length.

## **Profiles standard in soft PVC**





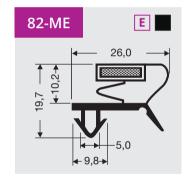
Profiles made of special compounds Available as frame or profile length.

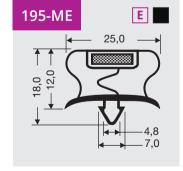
# TPE profile (-ME)

Profiles with the extension –ME are made of Thermoplastic Elastomers (TPE). Seals made of this high-grade thermoplastic rubber compound have several advantages compared to regular PVC and soft PVC, of which the most important:

- Less sensitive to the effects of fats
- Less sensitive to (aggressive) cleaning agents including disinfectants
- Temperature range from -40 °C to 130 °C

For these reasons we advise to use TPE seals in doors and drawers with high usage intensity, Ultra Low Temperature Freezers, shockfreezers, blast chillers, heated cabinets and climate cabinets.

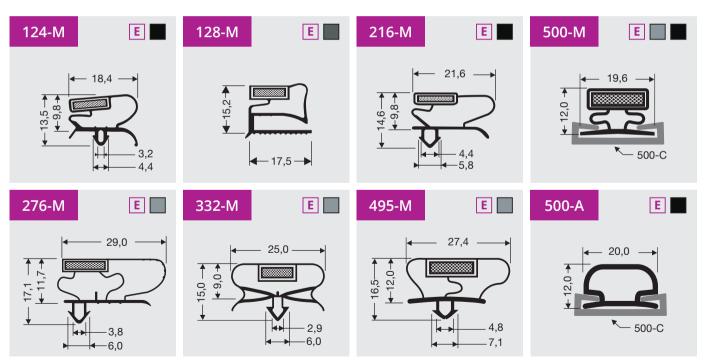






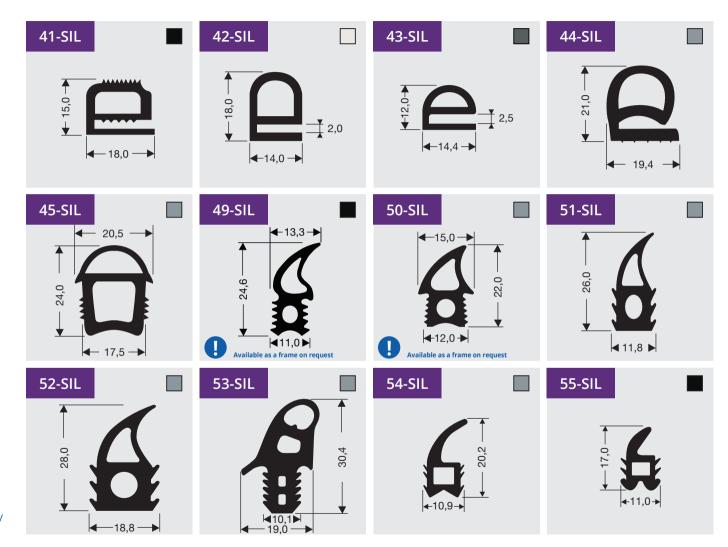
# Profiles made of special compounds Available as frame or profile length.

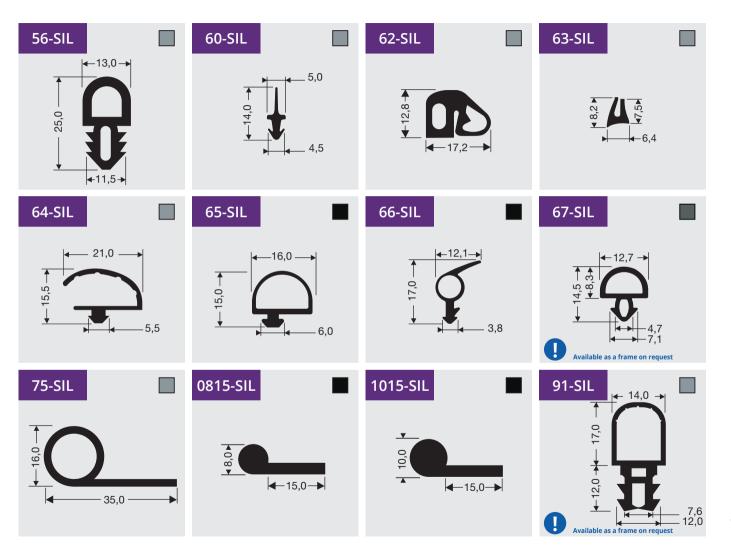
## **Profiles standard in TPE**





**Silicone profiles**-Available on a coil or by the meter.



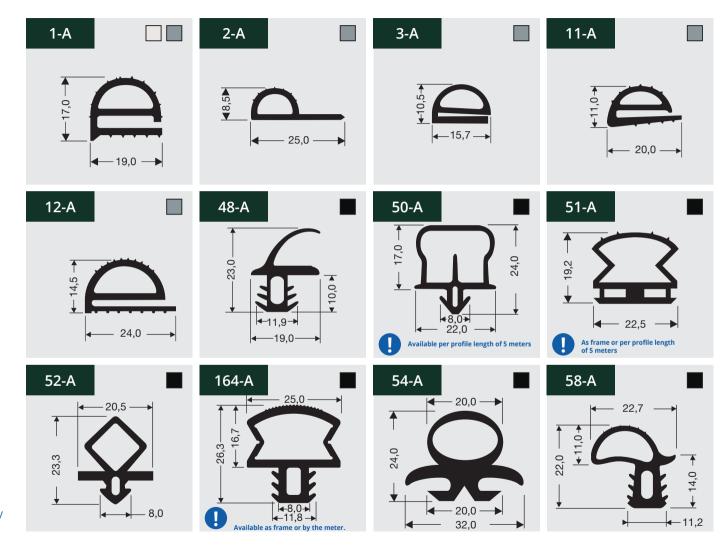


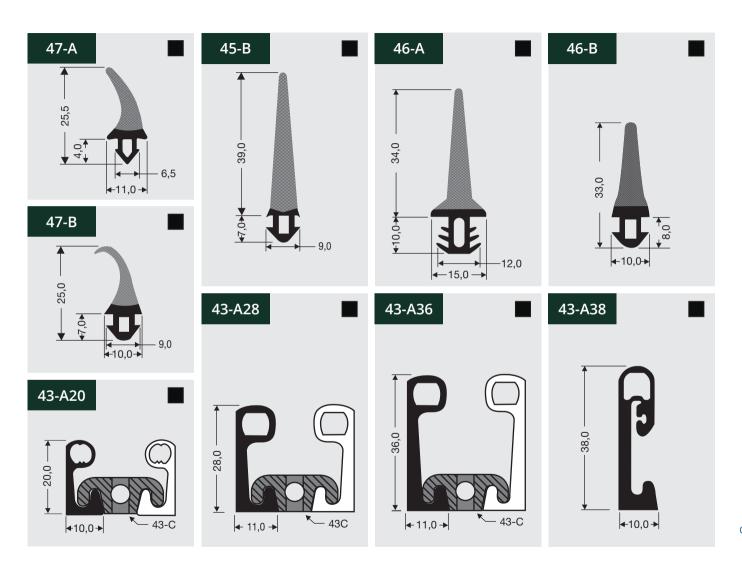


**Silicone profiles**-Available on a coil or by the meter.



**Rubber profiles**Available on a coil or by the meter.



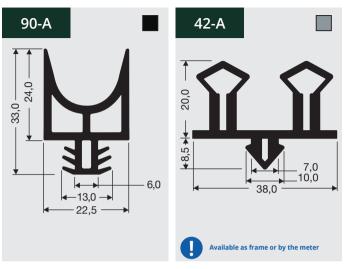


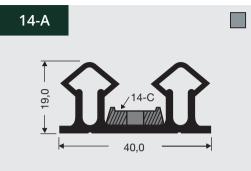


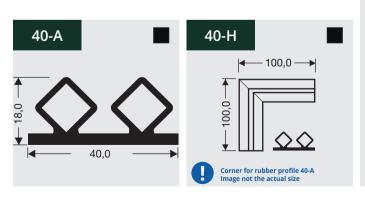
**Rubber profiles**Available on a coil or by the meter.

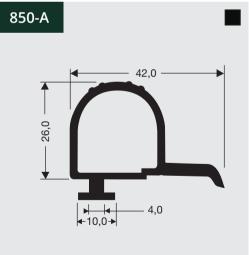


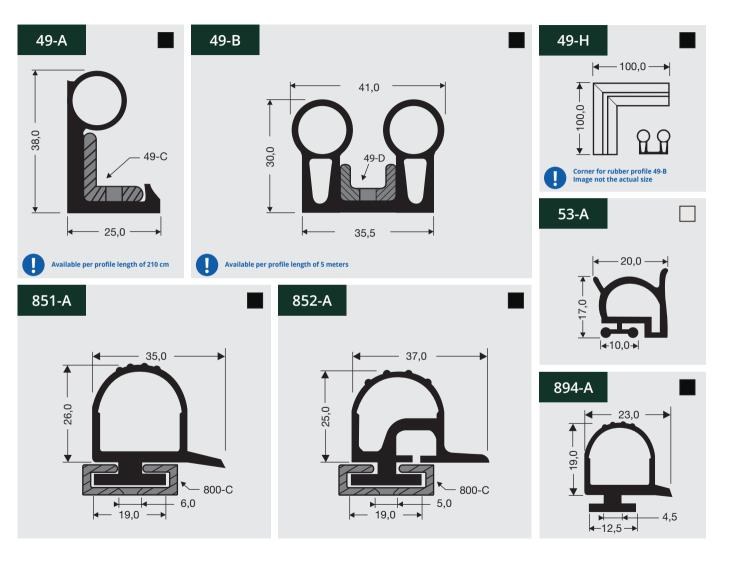
**Rubber profiles**Available on a coil or by the meter.









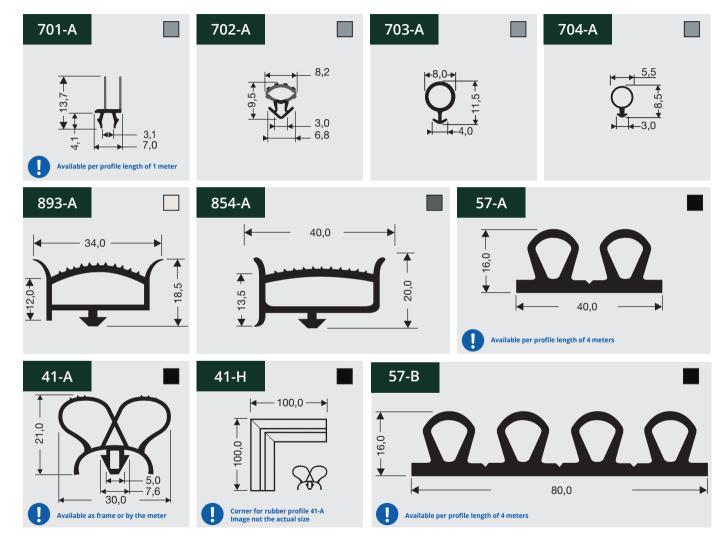


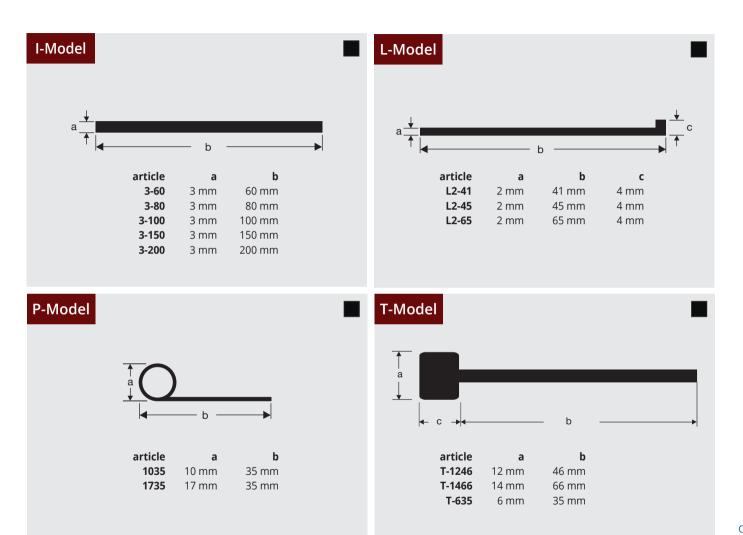


**Rubber profiles**Available on a coil or by the meter.



**Rubber profiles**Available on a coil or by the meter.







Rubber sweeper profiles

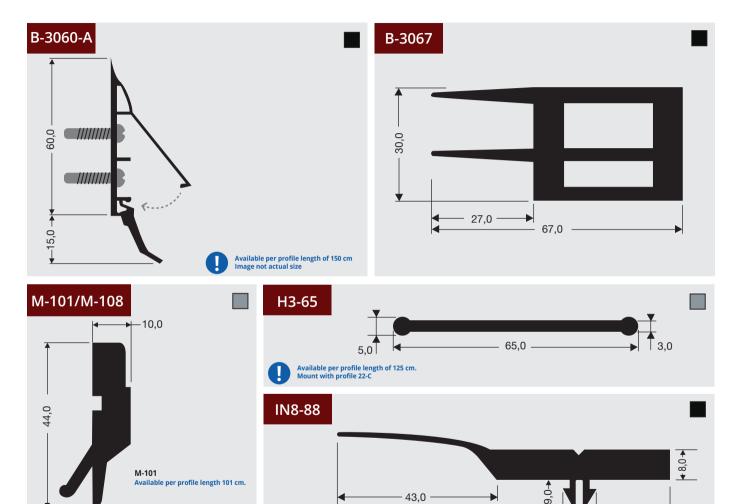
Available on a coil or

by the meter.



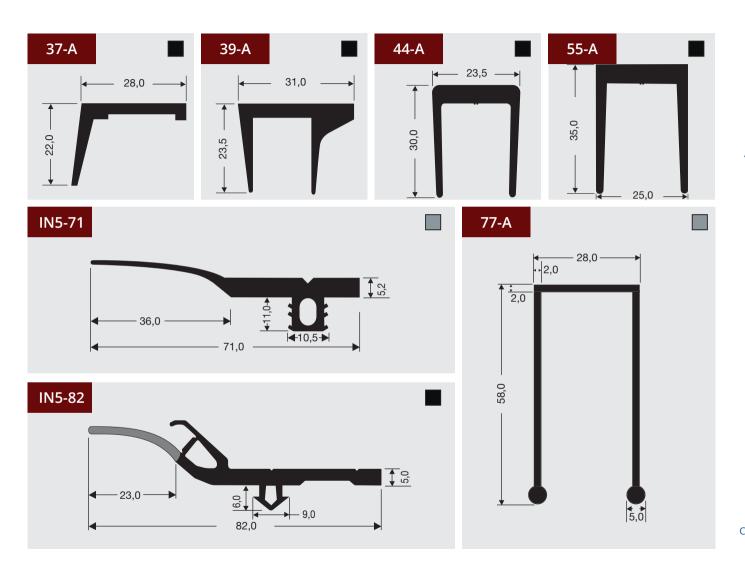
# **Rubber sweeper** profiles

Available on a coil or by the meter.



88,0

M-108 Available per profile length 108 cm.

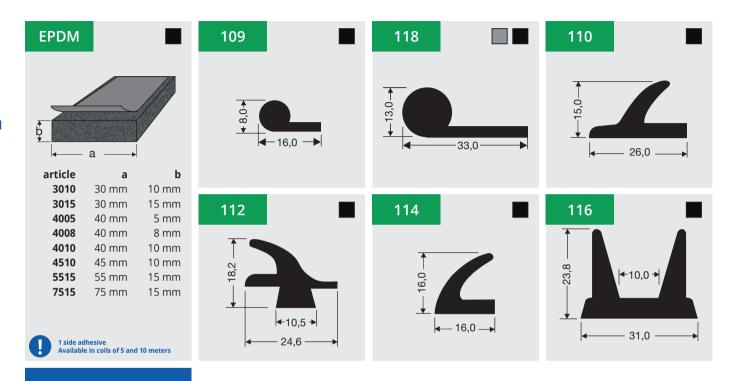




Rubber sweeper profiles Available on a coil or by the meter.

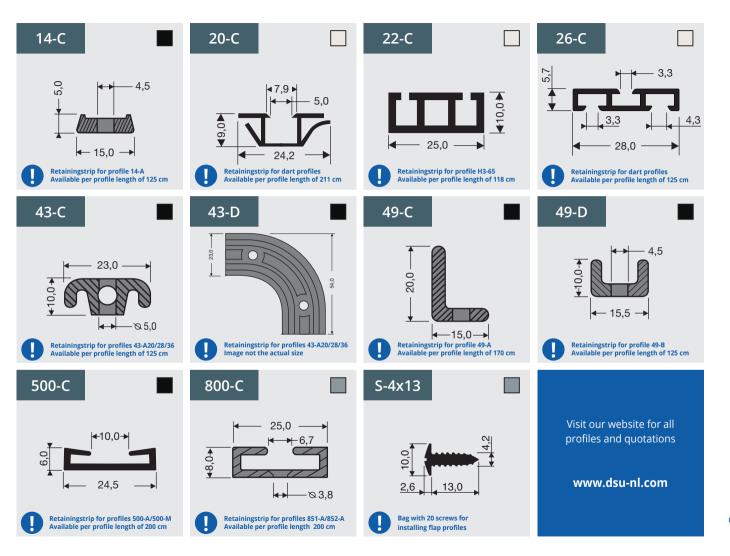


EPDM: Neoprene sponge rubber and foam profiles Available on a coil or by the meter.



Visit our website for all profiles and quotations

www.dsu-nl.com



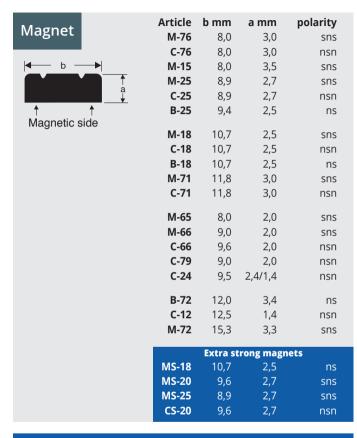
DSU

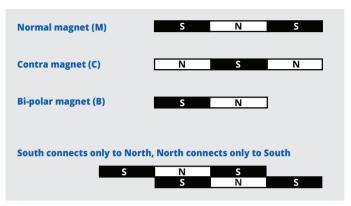
13

Magnets and Retainingstrips



Magnets and Retainingstrips





#### Functioning of a magnetic strip in a refrigerator seal/gasket

DSU is using more than 20 different magnetic strips in the production of refrigerator gaskets. The magnetic strips are without exception a combination of north and south poles magnet.

#### M - magnet

Magnet with the letter M is a magnetic strip with the combination South-North-South, this is the most commonly used magnetic strip for refrigerator gaskets.

#### C - magnet

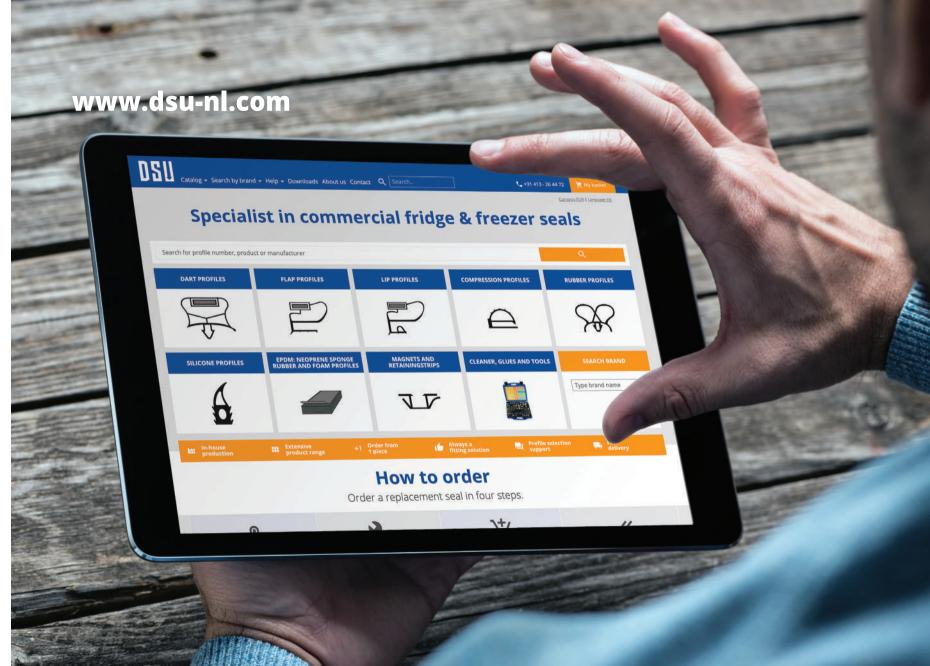
Magnet with the letter C is a magnetic strip with the combination North-South-North, we call this a "contra" magnet. The M – magnet and C – magnet will attract each other.

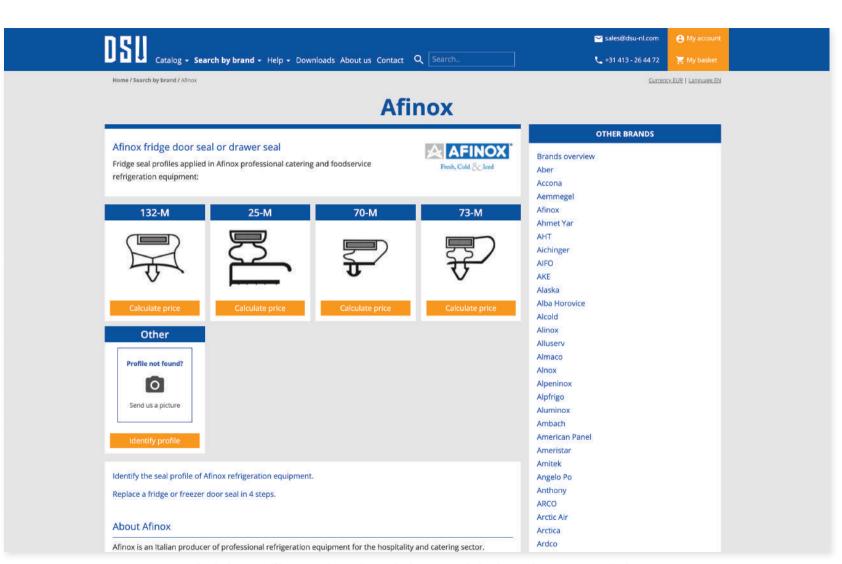
#### B – magnet

Magnet with the letter B is bi-polar (2-poles) magnetic strip. This type of magnetic strip is only rarely used in refrigerator seals. When a bi-polar magnet is applied it is important to check and test which pole needs to be positioned on the inside and which pole on the outside.

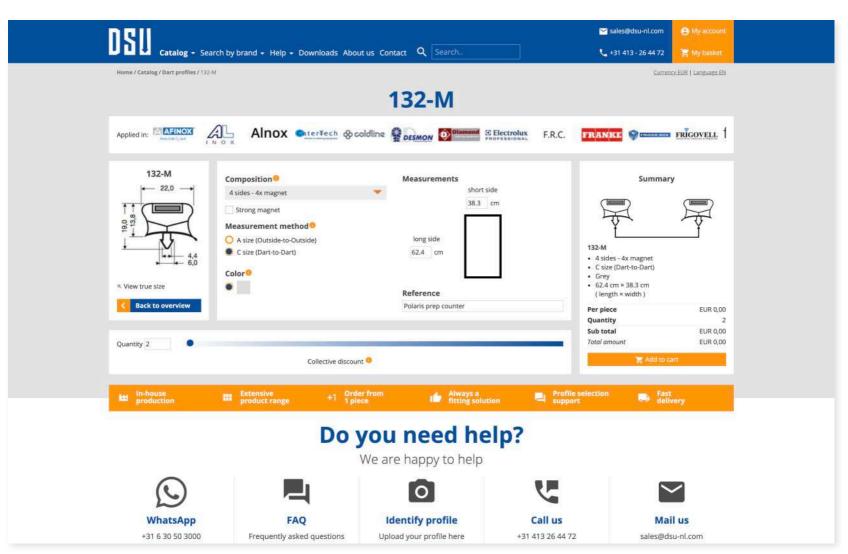


An extra strong magnetic strip provides a 30 - 40% higher force of attraction compared to a regular magnetic strip. Often used in refrigeration where doors or drawers spring open too easily when closing and for refrigeration equipment in moving vehicles. If an extra strong magnet is available, this option is shown in the seal configurator on the website.





Find the profiles used per brand via "search by brand" on our website



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