

MARINE HATCH & VESSEL SEALING SOLUTIONS

A COMPREHENSIVE GUIDE FOR ALL OF YOUR
VESSEL SEALING NEEDS



ISO
9001 : 2015
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Manufacturers Designers-Distributors

Experts in
Rubber

CONTENTS

Why Choose The Rubber Company?	02
The Importance of a Good Seal	03 - 04
Different Sealing Configurations	05
Solid Type Hatch Seal Profiles	06 - 09
Cat Type Hatch Seal Profiles	10 - 11
Sponge Type Hatch Seal Profiles	12
Composite Type Hatch Seal Profiles	13 - 14
Composite Seal Skin Options	15

Meet The Rubber Safety Matting Experts

"Here at The nanjing yuhang rubber design and manufacture an extensive range of solid, sponge and composite hatch sealing products. We can also provide over 15 years of experience in supplying rubber sealing solutions to customers all around the world, for use in a variety of applications. Let The Rubber Company take care of all of your vessel sealing needs."

Dingming WU - Sales Director

WHY CHOOSE YUHANG RUBBER COMPANY?

We are the **rubber sealing experts**

High Quality Rubber Compounds

There are many different rubber manufacturing compounds available, with each one providing their own features and properties. We can tailor our hatch seals to suit your specific application in order to ensure that you get a seal that is fit for purpose and manufactured to last. Some of our most popular hatch sealing compounds include:

EPDM

This is a highly popular compound for use in the manufacture of marine hatch seals. EPDM combines durable mechanical properties with mild resistance in a cost-efficient package. Another key feature of EPDM is the materials excellent resistance against weathering, UV and Ozone deterioration. This enables you to use EPDM seals in both interior and exterior applications without compromising on performance.

Natural Rubber

Natural Rubber is an excellent general-purpose sealing compound. The flexibility of Natural Rubber enables the material to compress to form an air and water tight seal while returning to its original shape when not in use. The combination of flexibility, tensile strength, tear resistance and abrasion resistance make this material an ideal long-term sealing solution.

Neoprene

This sealing compound is generally used in more unique or specialist applications. Neoprene rubber is able to maintain its physical properties across a wide operating temperature range. We can also produce this compound in flame retardant grades for superior safety in interior applications.

Nitrile

Nitrile Rubber provides excellent resistance against oil and fuel deterioration. Nitrile also features good rates of flexibility, compression as well as wide operating temperature range. This high-quality material is ideal for use in demanding and hazardous applications.

Bespoke Manufacturing Service

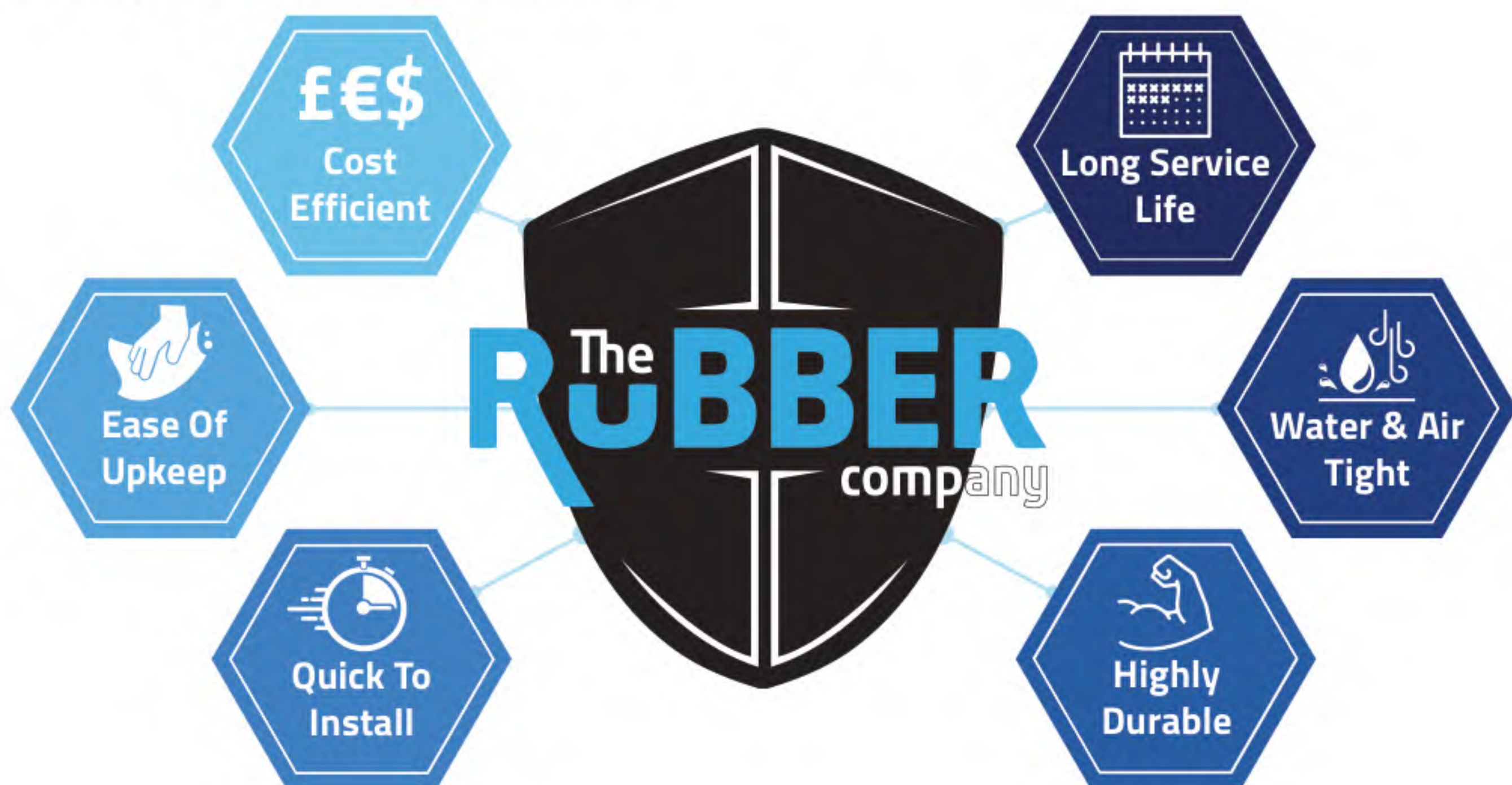
The Rubber Company offer an extensive selection of marine hatch seals available as standard. We can supply a variety of designs, shapes and sizes to suit virtually any marine vessel. Our hatch seals combine excellent sealing capabilities with unmatched durability in a single format. This not only serves to reduce the maintenance required, but also helps to reduce costs. We can also provide a bespoke manufacturing service, working directly with you to create a seal to match your unique requirements. With over 100 years of experience working with customers all around the world we are well positioned to provide the best advice possible. Do not hesitate to get in contact with us in order to discover how The Rubber Company can help your marine sealing needs.



THE IMPORTANCE OF A GOOD SEAL

Maximising on functionality & durability

Sealing Solution Expectations



With the advancements in manufacturing processes and material properties the expectations for marine hatch seals have changed over the years. Today's modern hatch seals outperform traditional seals in every aspect from sealing capabilities to life expectancy. The implementation of strict health and safety guidelines has pushed the need for safer and more efficient marine hatch seals.

Here at The Rubber Company we are committed to providing the best quality hatch seals possible. Once installed correctly our sealing solutions ensure complete watertight seal while maintain functionality over a long service life. The performance of our seals is not only determined by the quality of the material but also the design and size of the sealing profile. There are also many variables to consider such as how the seals will function while in operation as the vessel is at sea. Our tried and tested hatch seals provide proven and reliable results for the safe operation of all types of vessels.

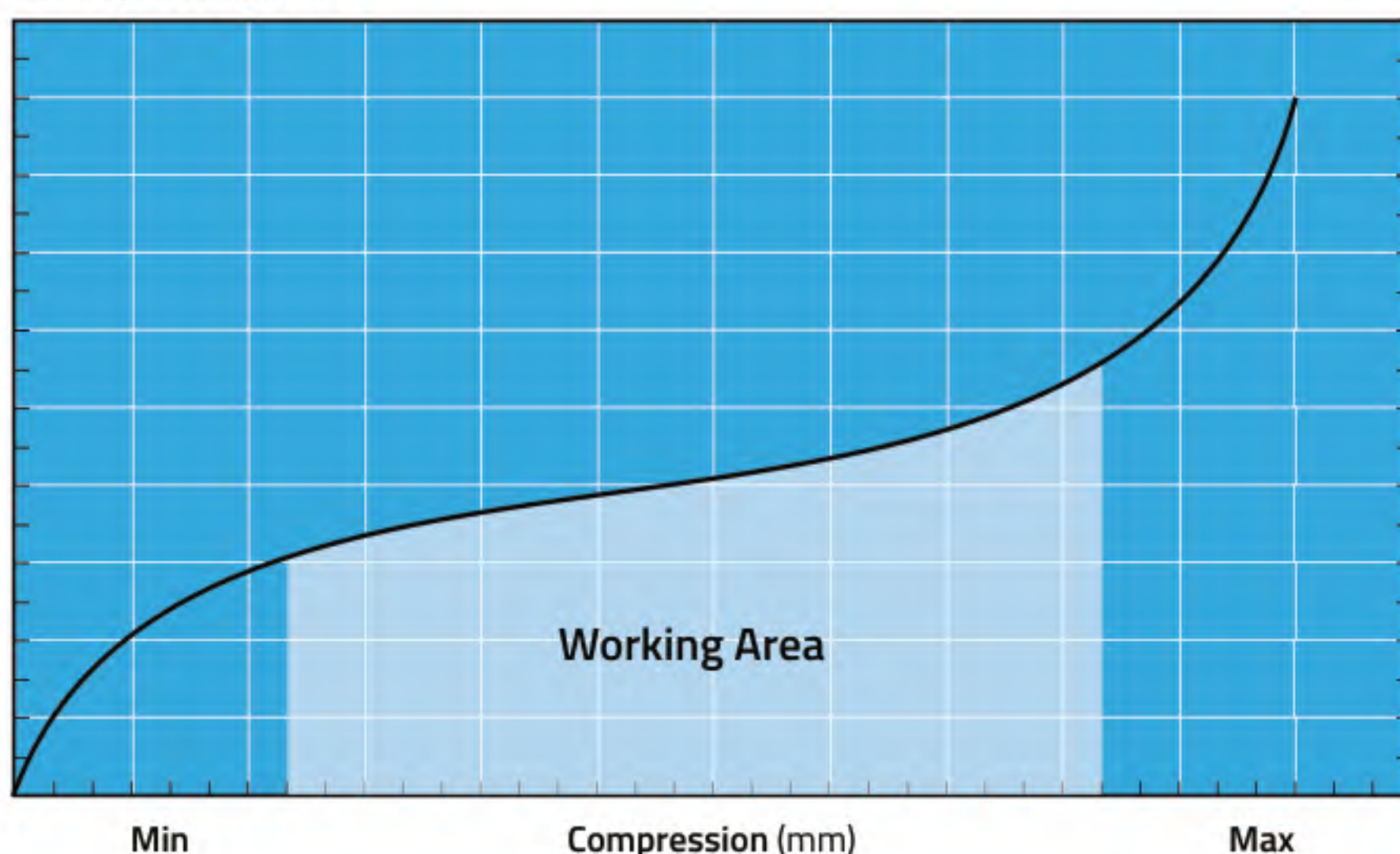
The Characteristics of a Good Sealing System

- Easily slots into sealing gap without leaving large voids
- High rates of compression in order to form an effective seal
- Keeps water and weather out
- Allows for hull and coaming deflections while at sea
- Keeps cargo and equipment dry and/or inert gasses inside the hold
- Quick and easy to install
- Highly durable and suitable for repeated use.

A suitable sealing force is required for the sealing system to function correctly. A watertight seal is not only achieved by the sealing profile, but for the entire system to work in unison. It is crucial that the system be installed correctly in order to ensure that an appropriate level of tension is maintained along the entire hatch. This will ensure that the seal is able to compress evenly, which will create a more effective seal while also preserving service life. Slight changes to one part of the system can have a knock-on effect on other sections of the hatch.



Sealing force (kN/m)



Our range of marine hatch seal compounds have been tested and optimised to provide sealing force over a wide compression range. It is also important to consider the type of material used, as sponge rubber compounds will offer significantly higher rates of compression compared to solid rubber compounds.

This graph is to be used as an example to demonstrate the ideal range of compression required in order to create a seal. The actual compression rates required depend on the material, profile design and the application.

DIFFERENT SEALING CONFIGURATIONS

Tailored to **your specific application**

Solid Rubber Hatch Seals



- High tensile strength & tear resistance
- Optimised rubber for minimal wear
- Available in complex shapes & designs
- Specialist manufacturing grades available
- Fast high quantity production runs
- Does not absorb water

Cat Type Rubber Hatch Seals



- Quick & easy to install
- No compression bar required
- Good rates of compression
- Seals against a variety of surfaces
- High abrasion resistance
- Maintains shape after long periods of use

Sponge Rubber Hatch Seals



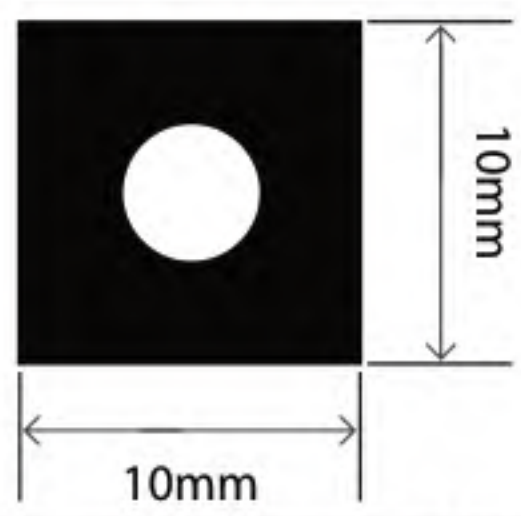
- High rates of compression
- Can seal against uneven surfaces
- Minimal permanent set
- Easy to cut to size
- Lightweight & simple to install
- Ideal for older vessels

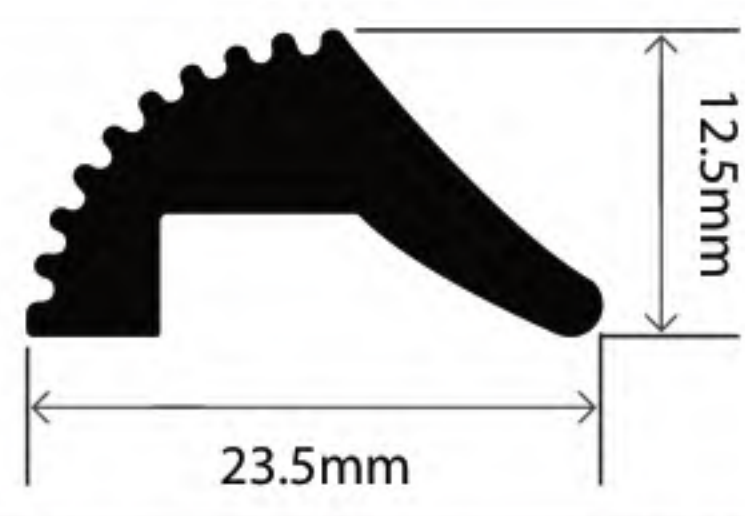
Composite Rubber Hatch Seals



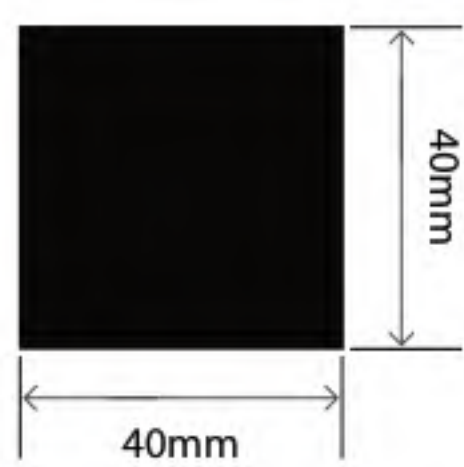
- Durable outer skin
- Compressible sponge core
- Easy to cut & install
- Corner & end pieces available
- Variety of outer skin compounds available
- Wide variety of sizes as standard

SOLID TYPE HATCH SEAL PROFILES

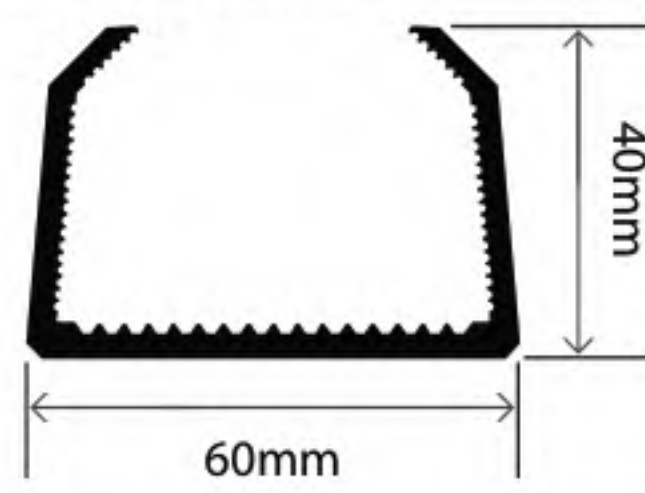
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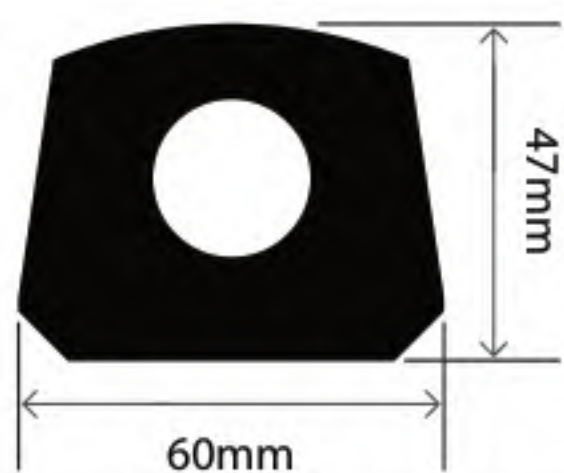
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RC2500C	
	
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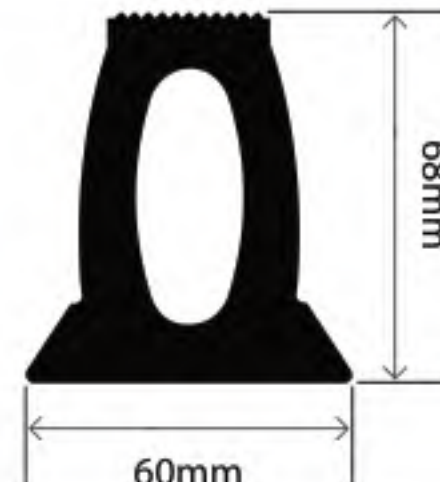
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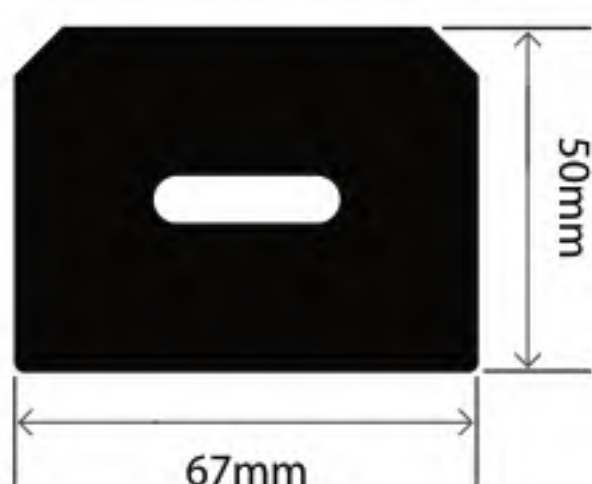
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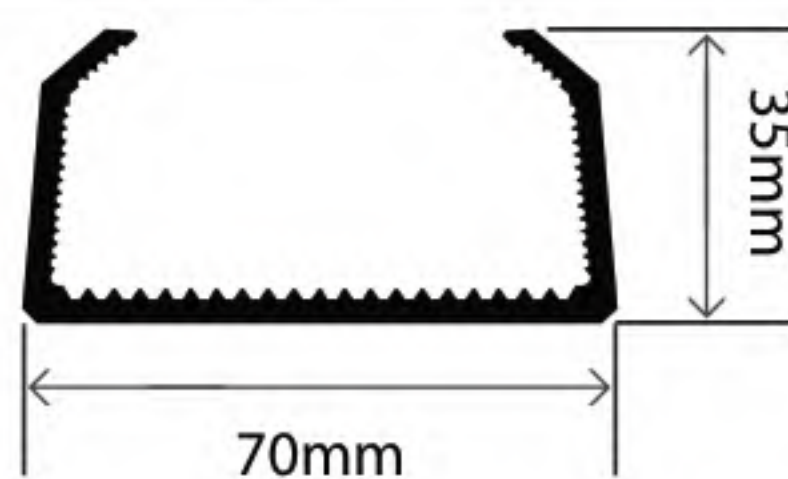
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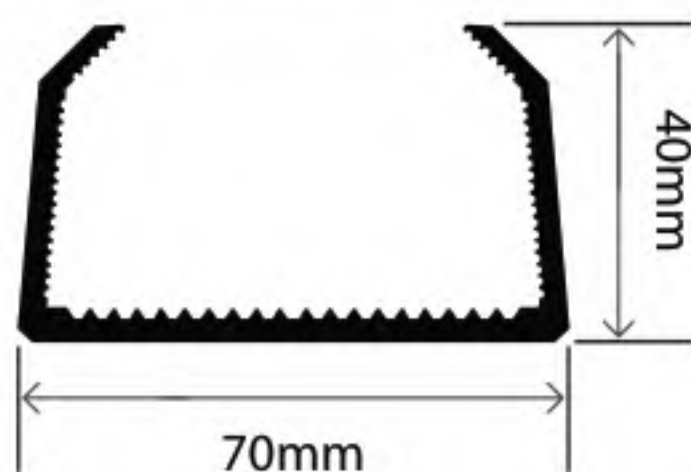
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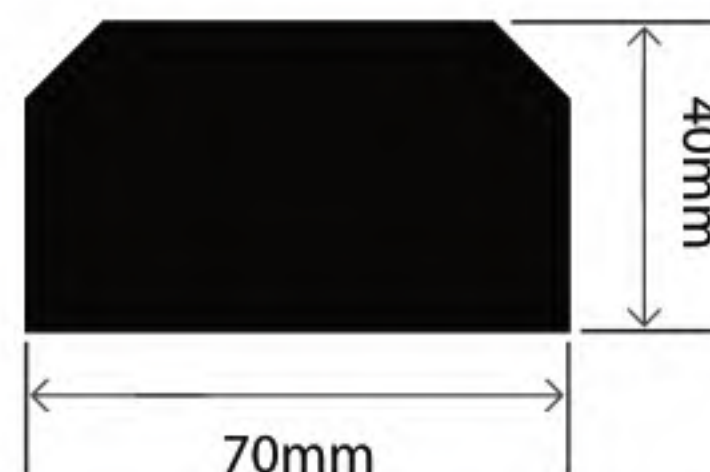
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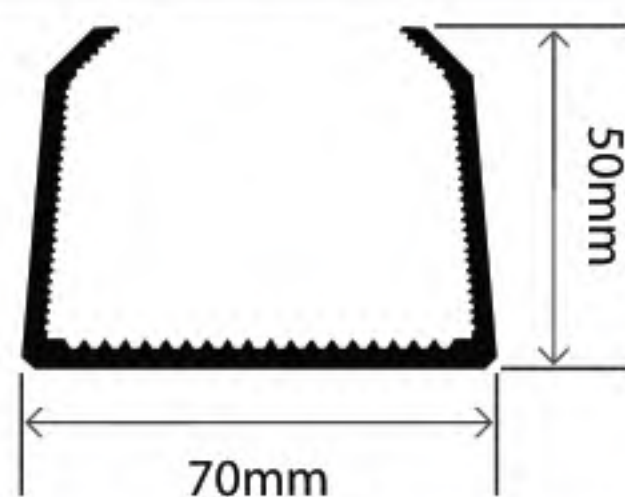
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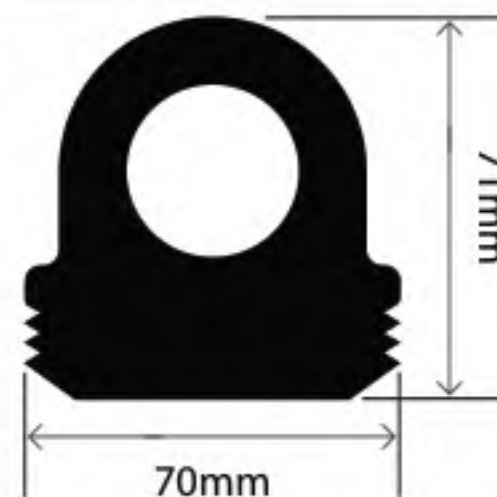
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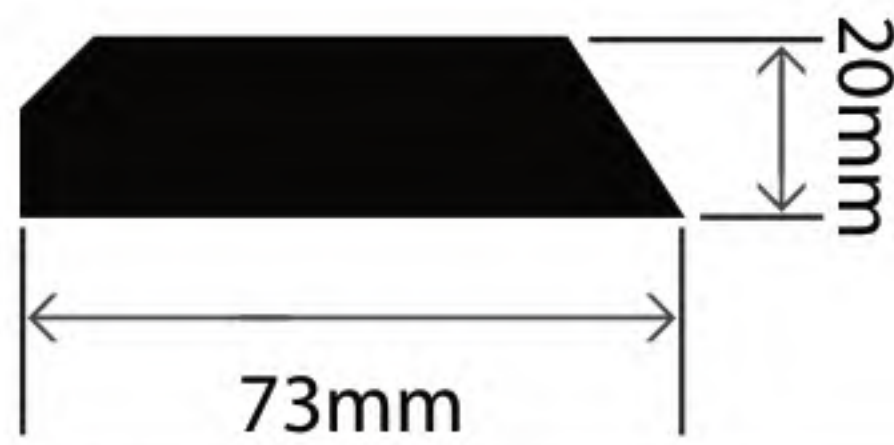
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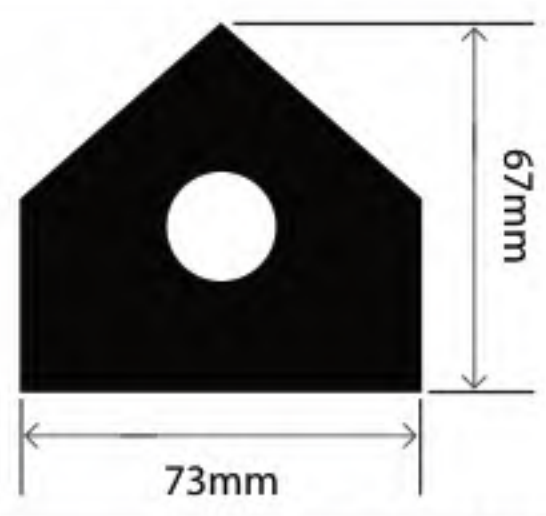
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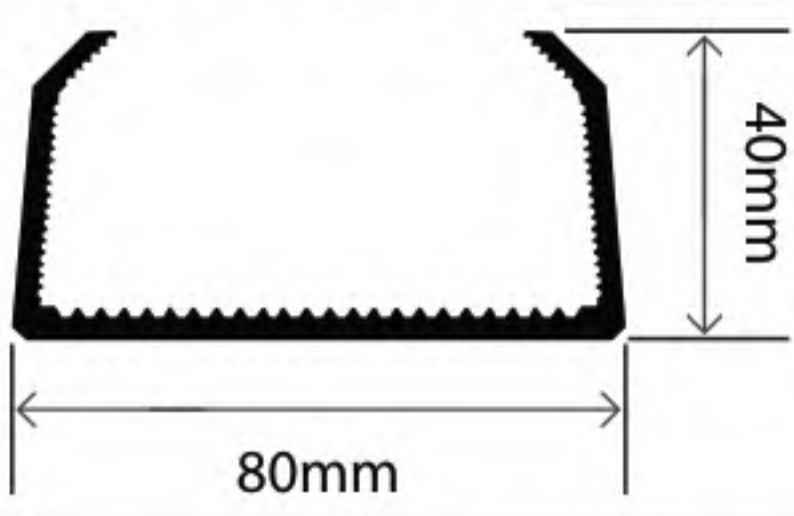
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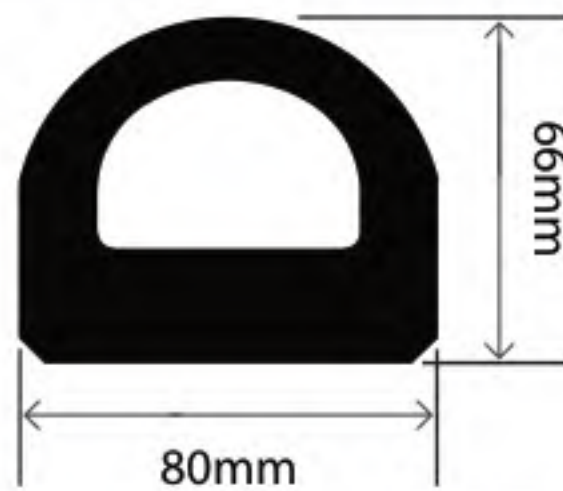
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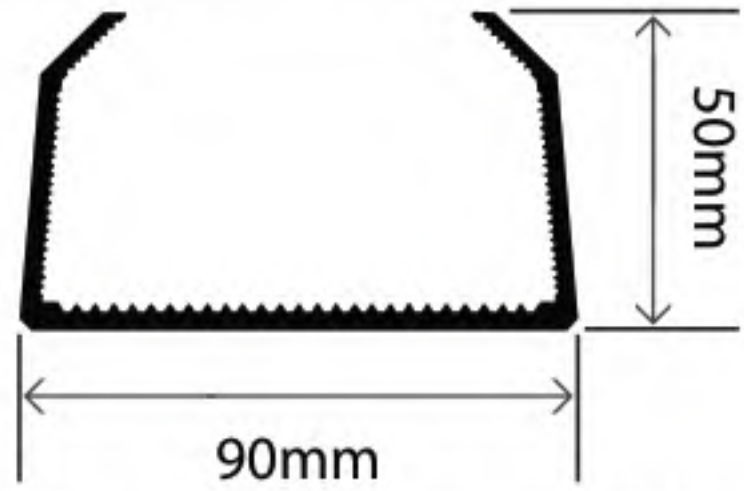
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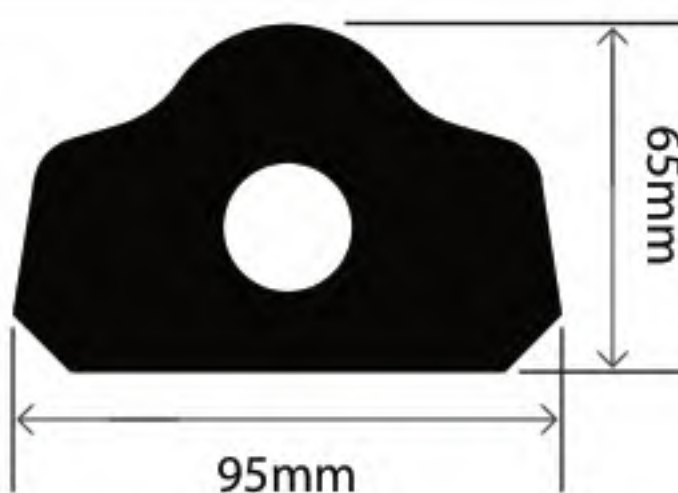
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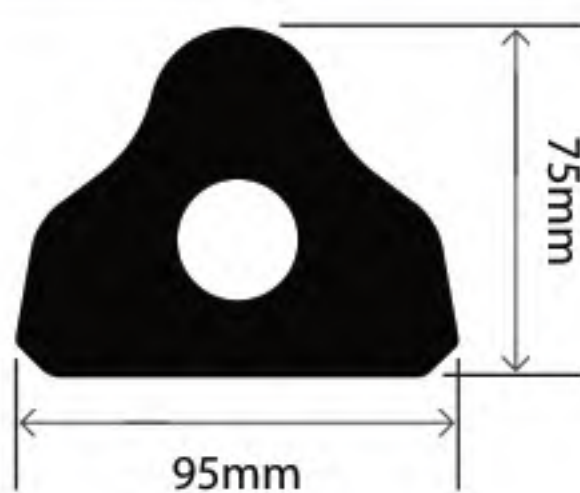
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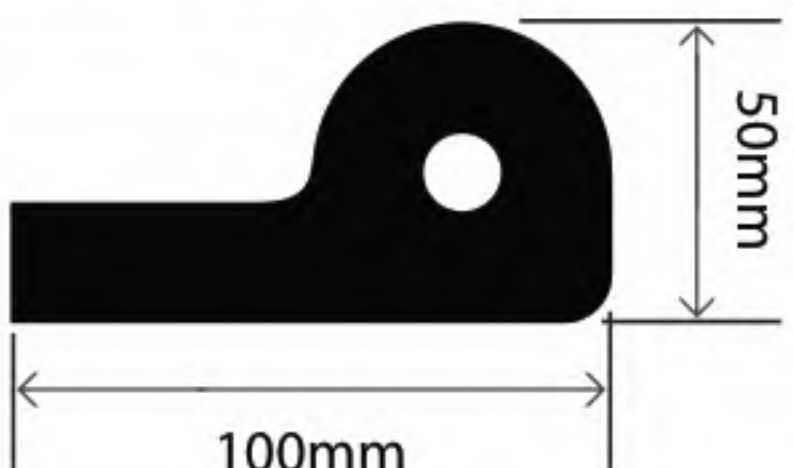
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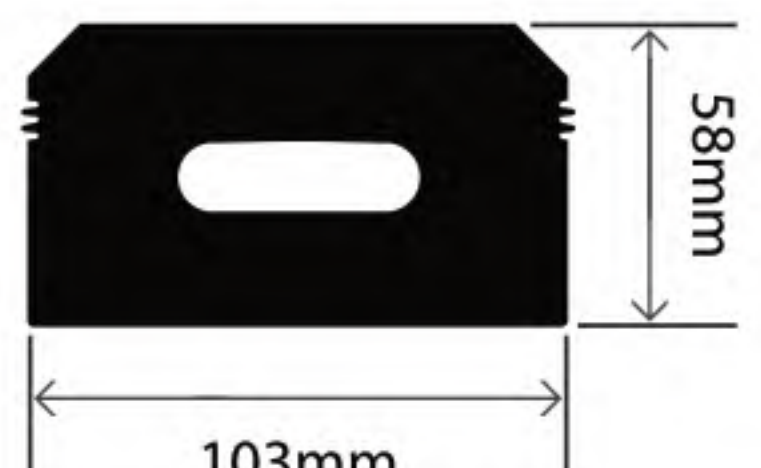
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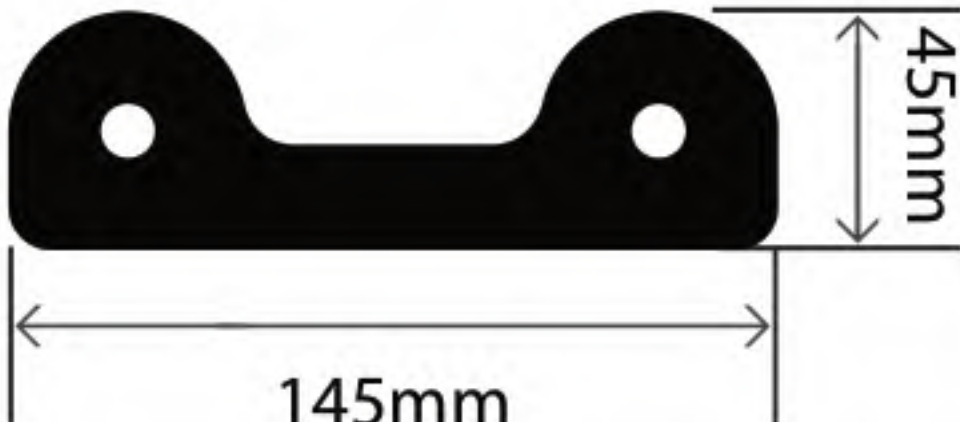
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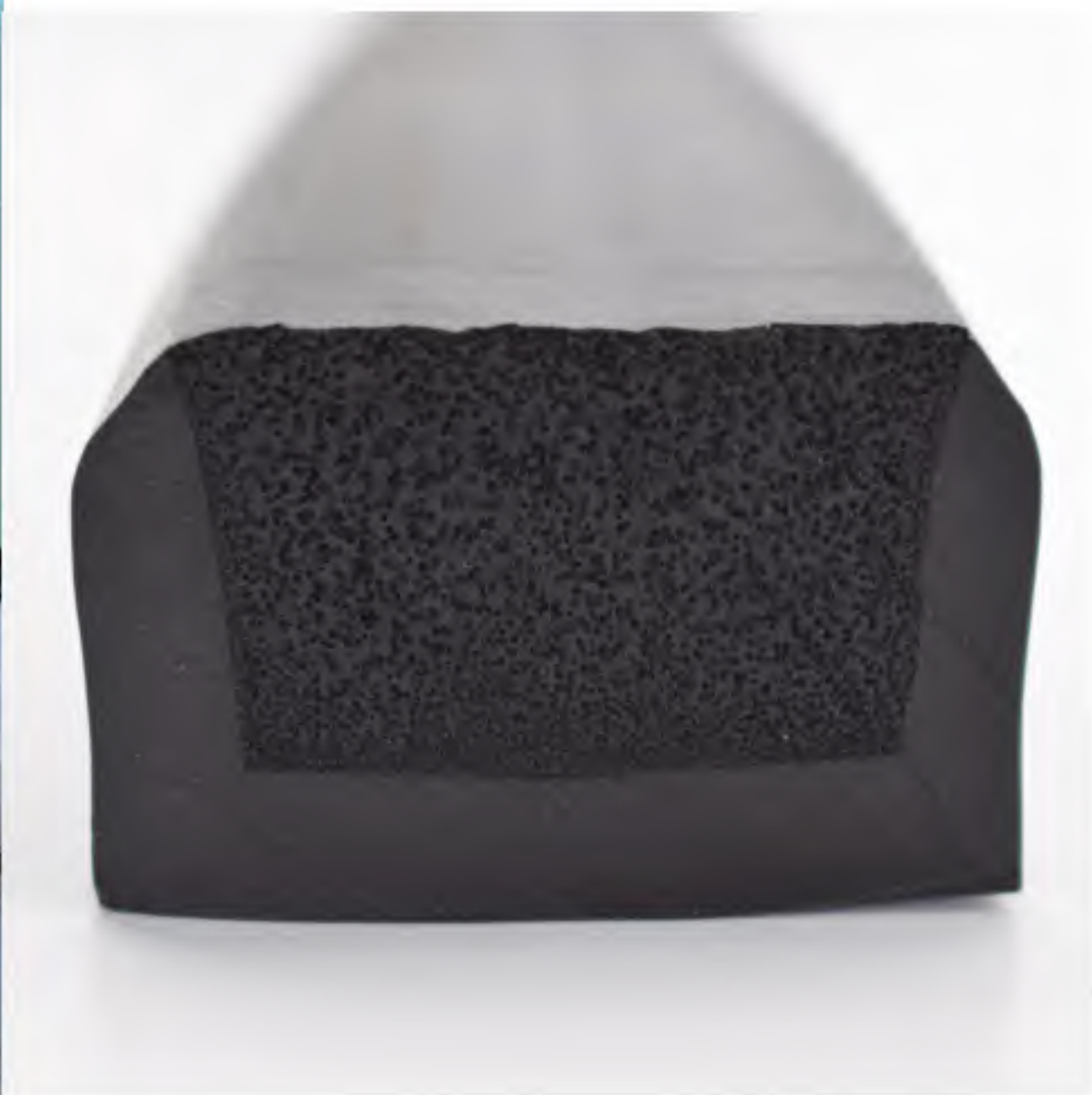
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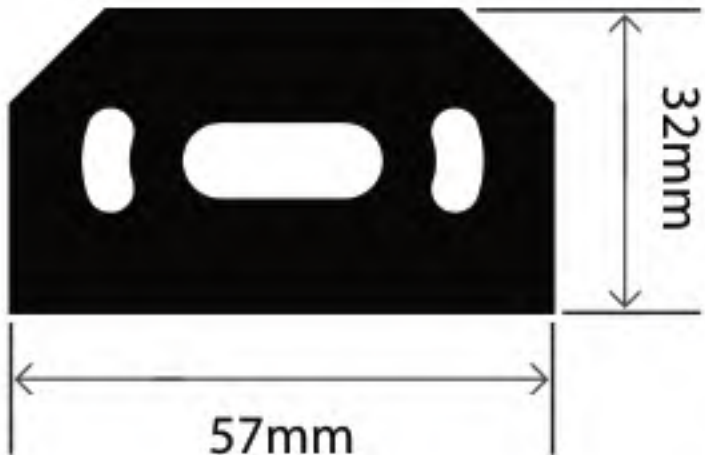
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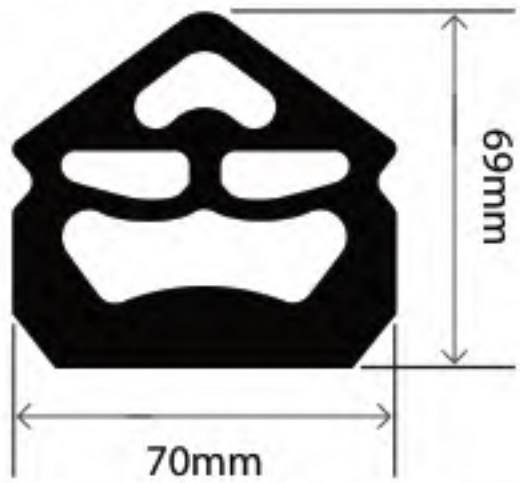
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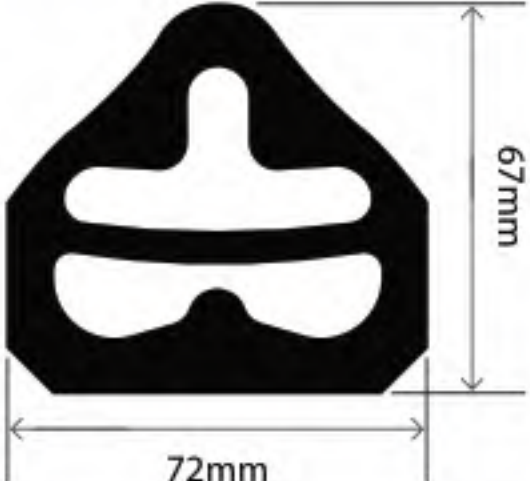
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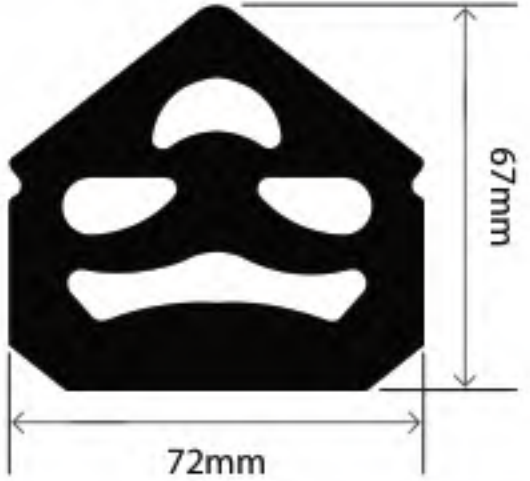


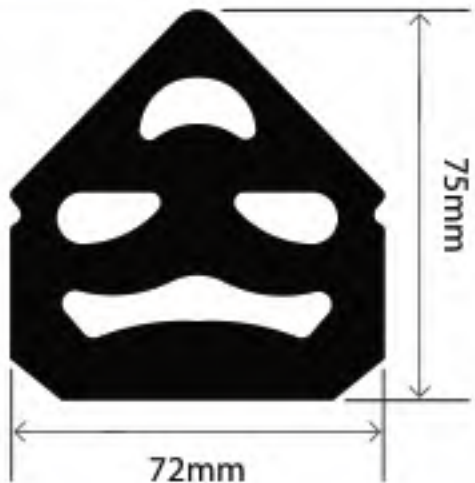
CAT TYPE HATCH SEAL PROFILES

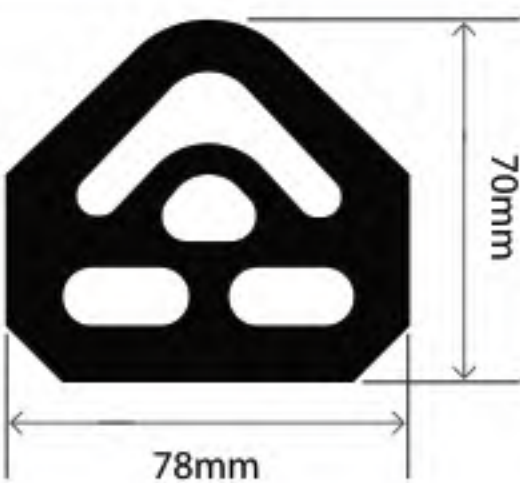
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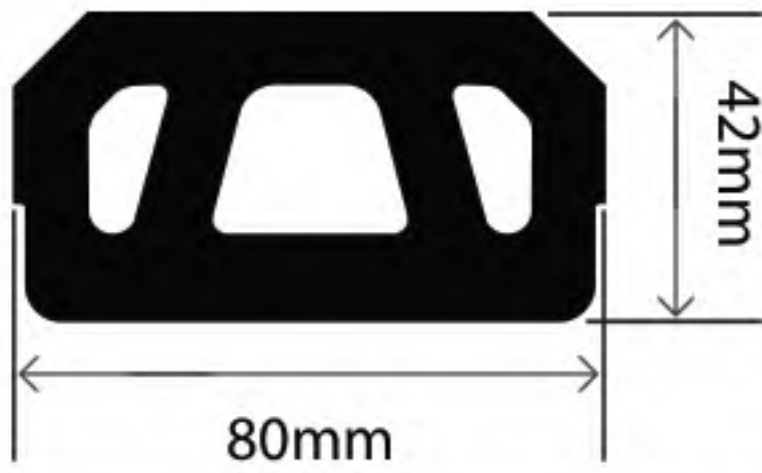
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RC2954C	
	
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RC2458C



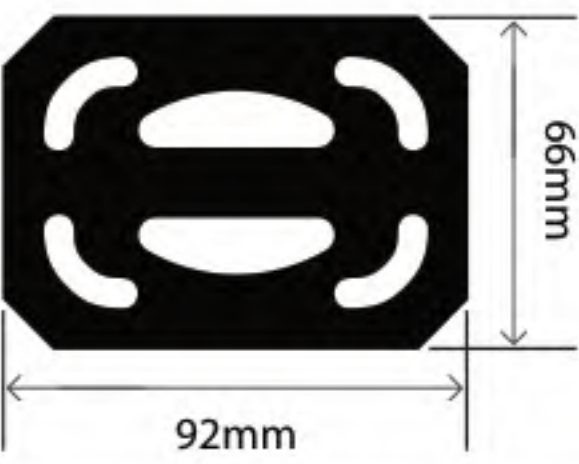
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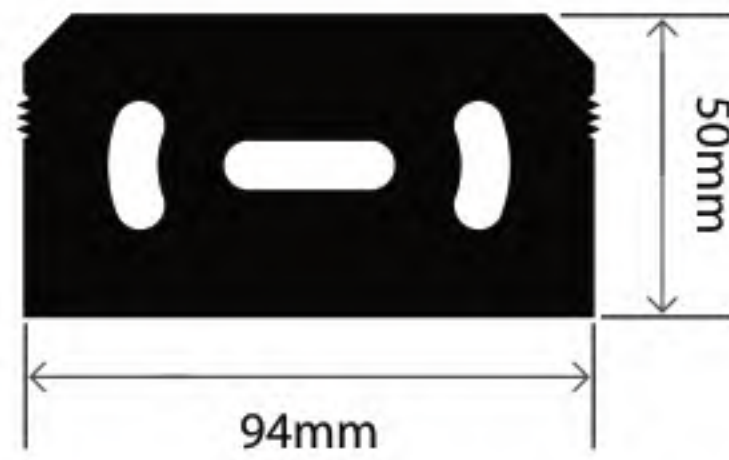
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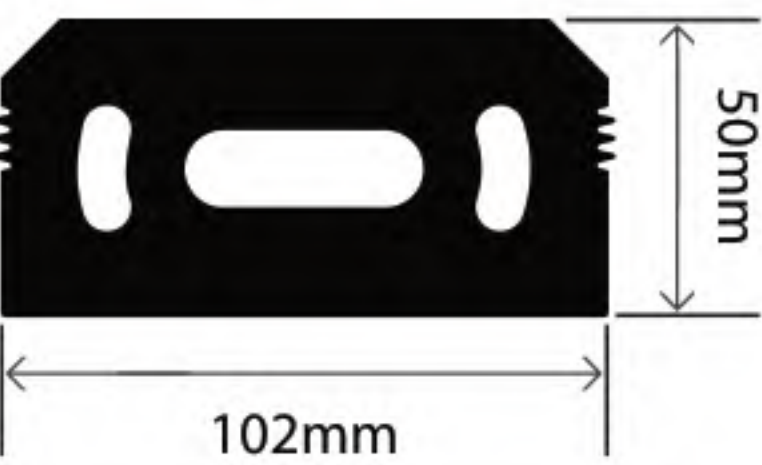
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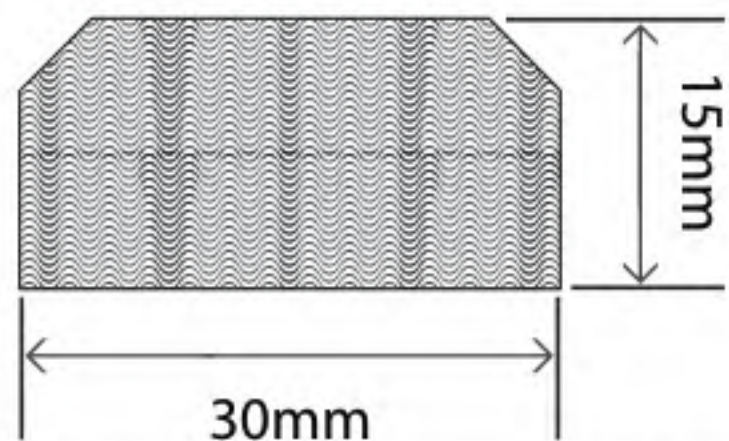
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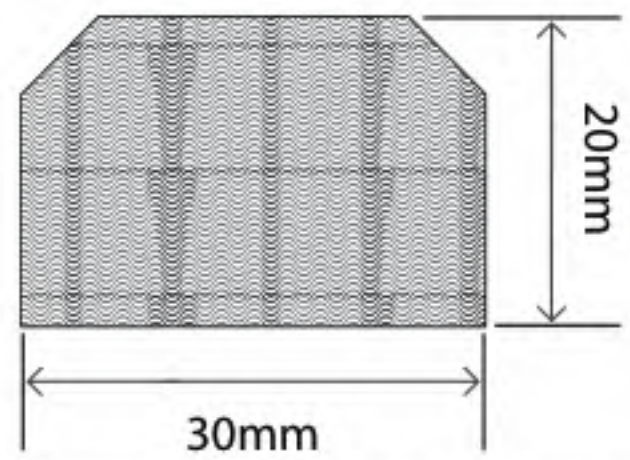
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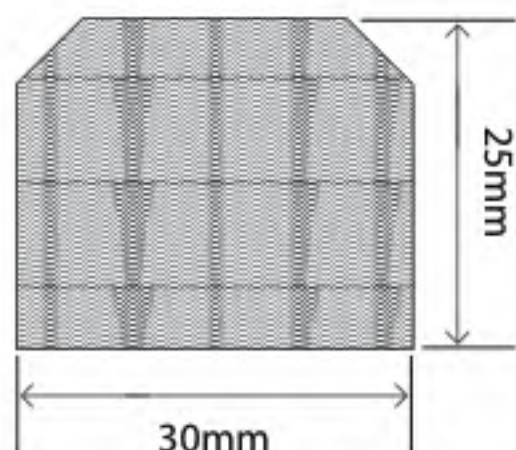
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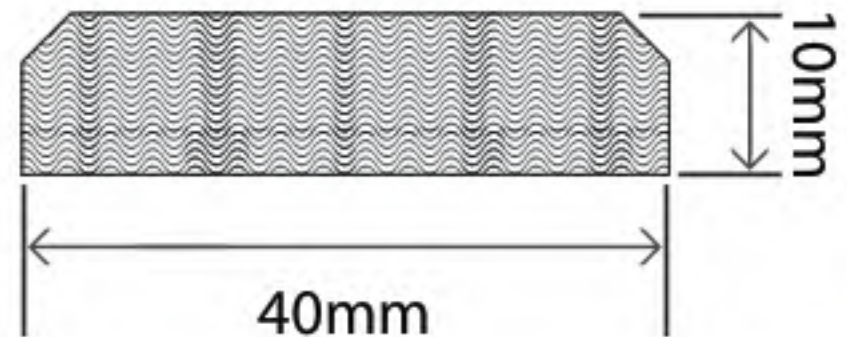


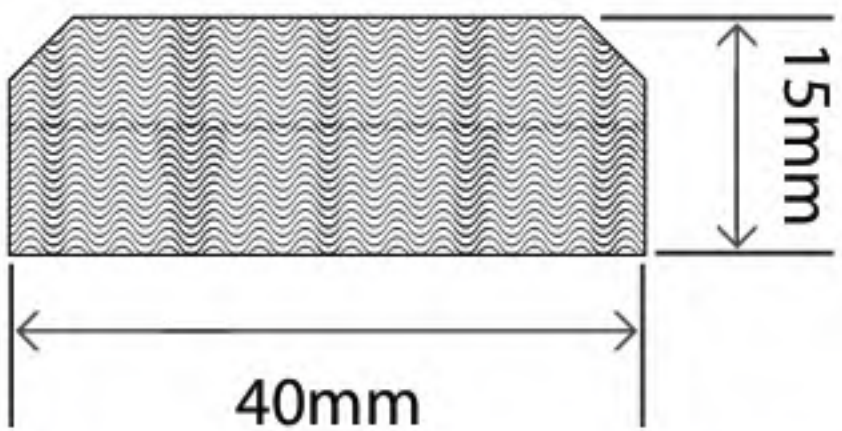
SPONGE TYPE HATCH SEAL PROFILES

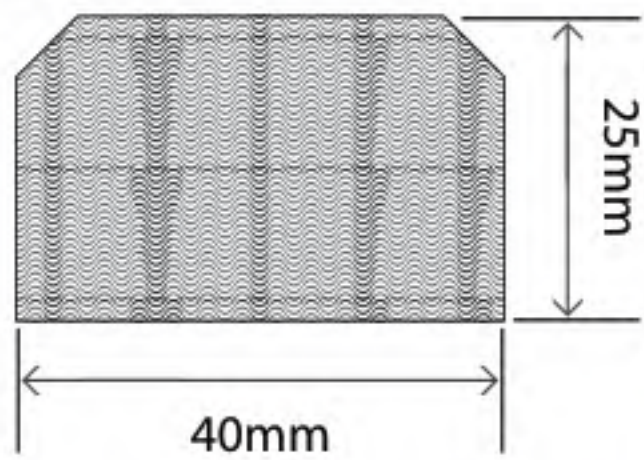
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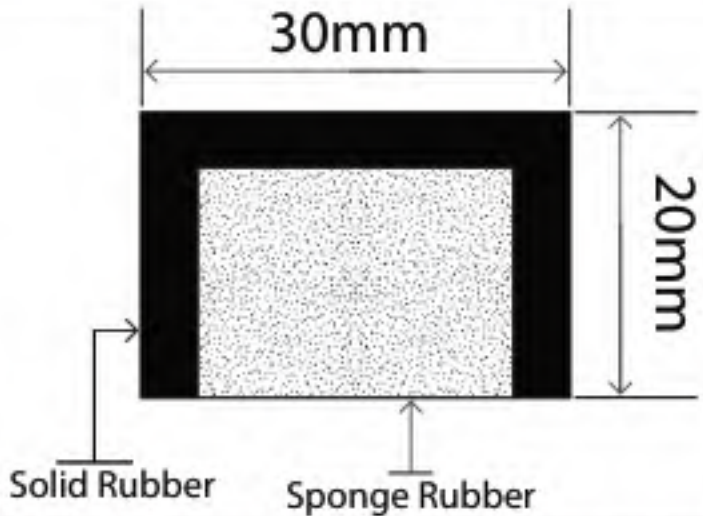
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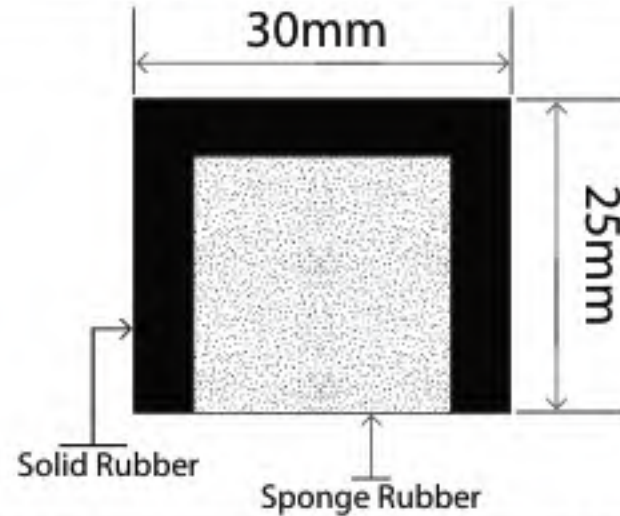
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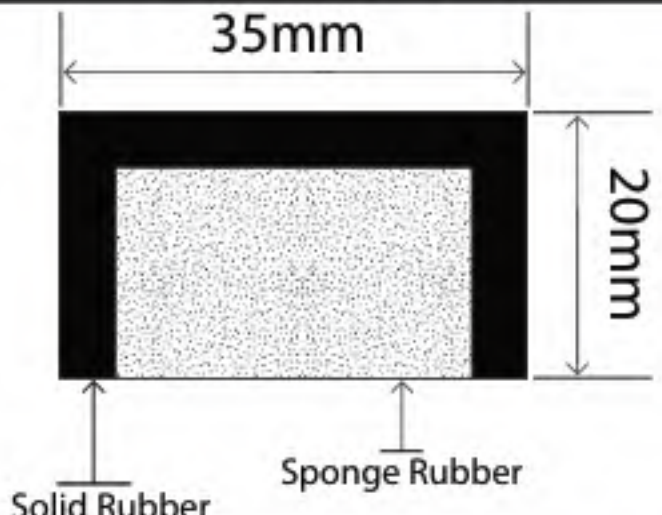
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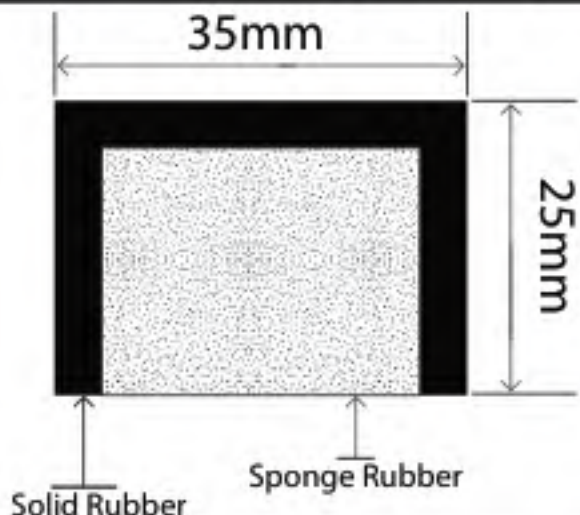
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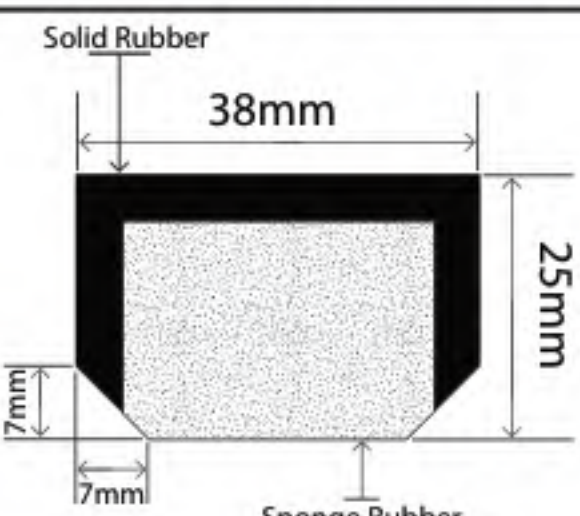
COMPOSITE HATCH SEAL PROFILES

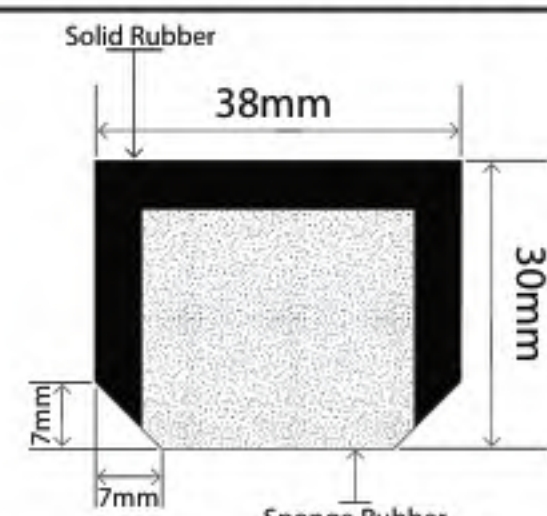
RUBBAHATCH-30X20	
	
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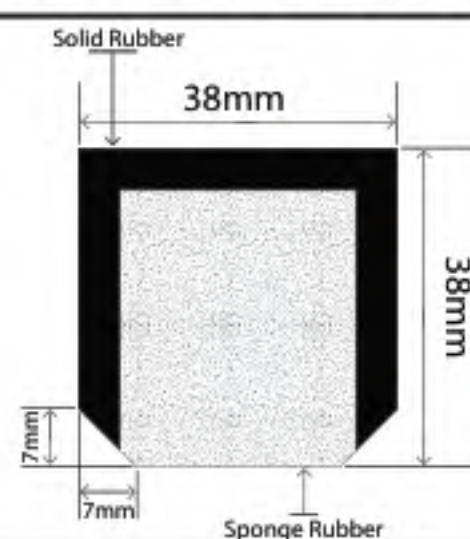
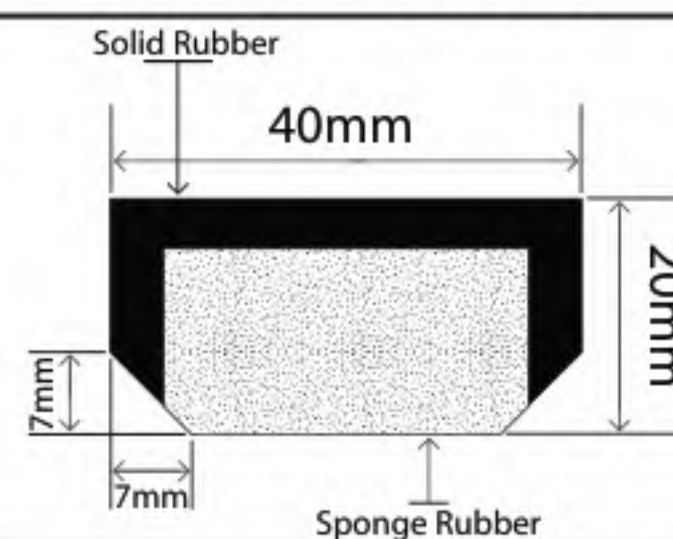
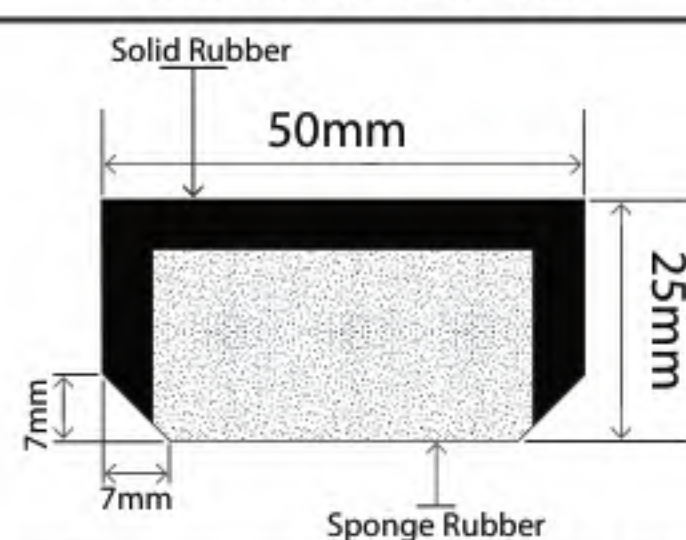
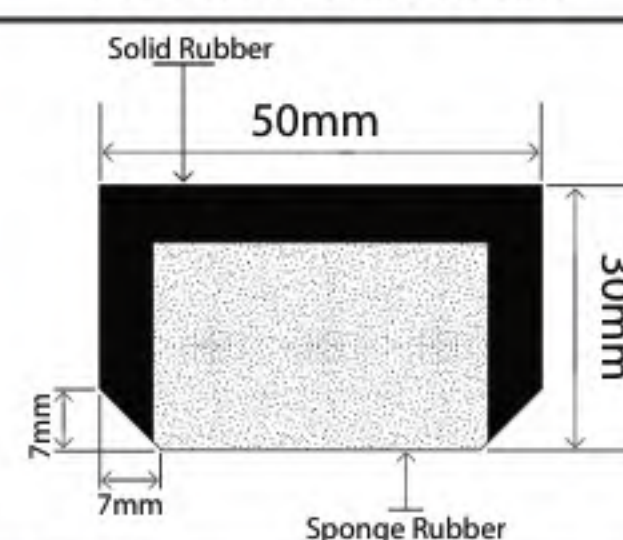
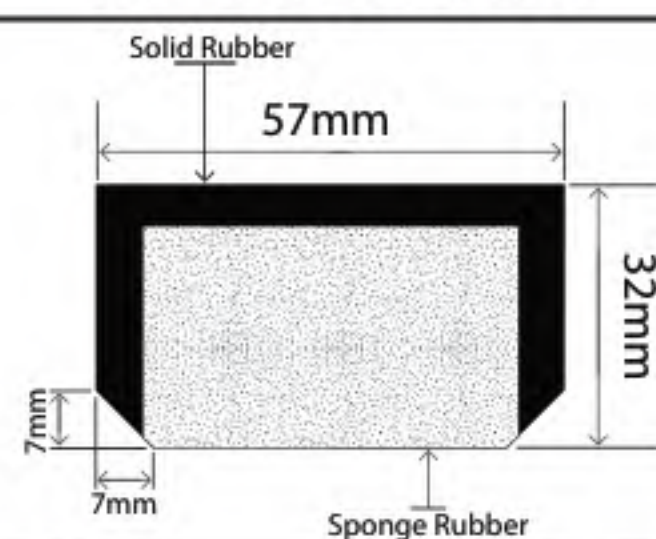
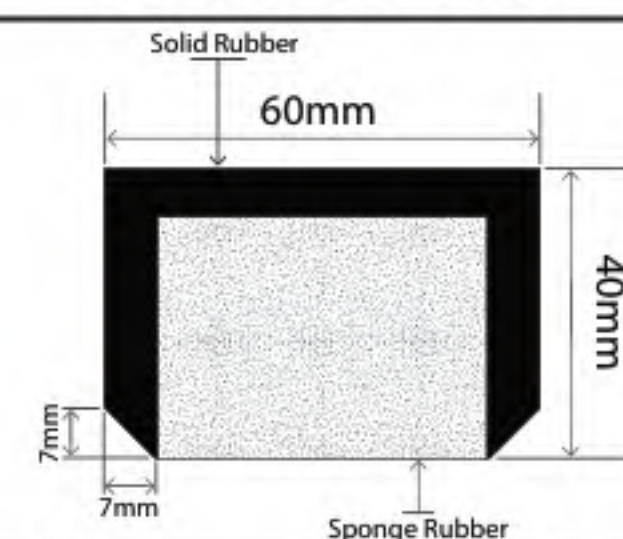
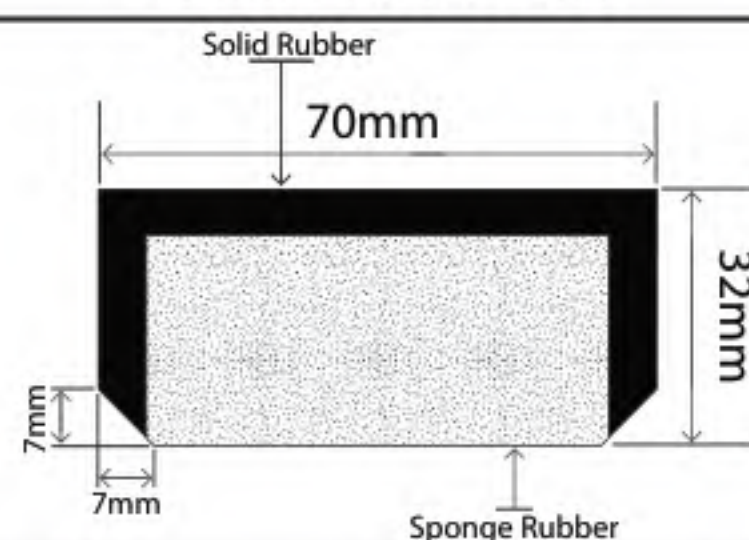
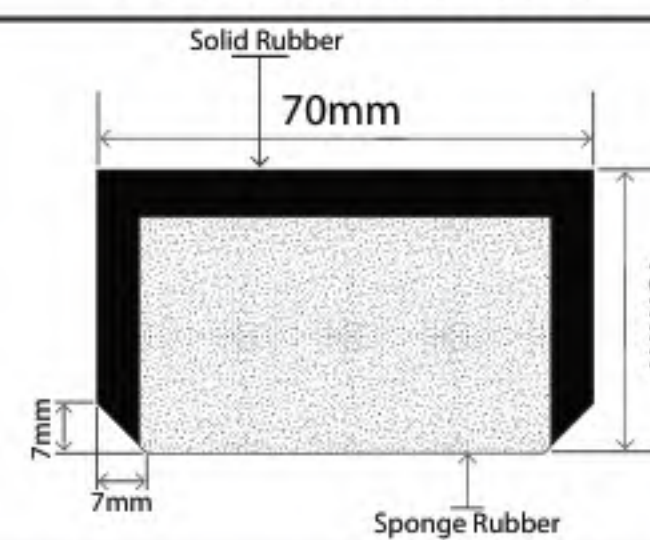
RUBBAHATCH-30X25	
	
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RUBBAHATCH-35X20	
	
Width (mm)	Height (mm)
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RUBBAHATCH-35X25	
	
Width (mm)	Height (mm)
35	25

RUBBAHATCH-38X25	
	
Width (mm)	Height (mm)
38	25

RUBBAHATCH-38X30	
	
Width (mm)	Height (mm)
38	30

RUBBAHATCH-38X38**Width
(mm)****Height
(mm)****38****38****RUBBAHATCH-40X20****Width
(mm)****Height
(mm)****40****20****RUBBAHATCH-50X25****Width
(mm)****Height
(mm)****50****25****RUBBAHATCH-50X30****Width
(mm)****Height
(mm)****50****30****RUBBAHATCH-57X32****Width
(mm)****Height
(mm)****57****32****RUBBAHATCH-60X40****Width
(mm)****Height
(mm)****60****40****RUBBAHATCH-70X32****Width
(mm)****Height
(mm)****70****32****RUBBAHATCH-70X40****Width
(mm)****Height
(mm)****70****40**

COMPOSITE SEAL SKIN OPTIONS

Different options to suit your application

The Characteristics of a Good Sealing System

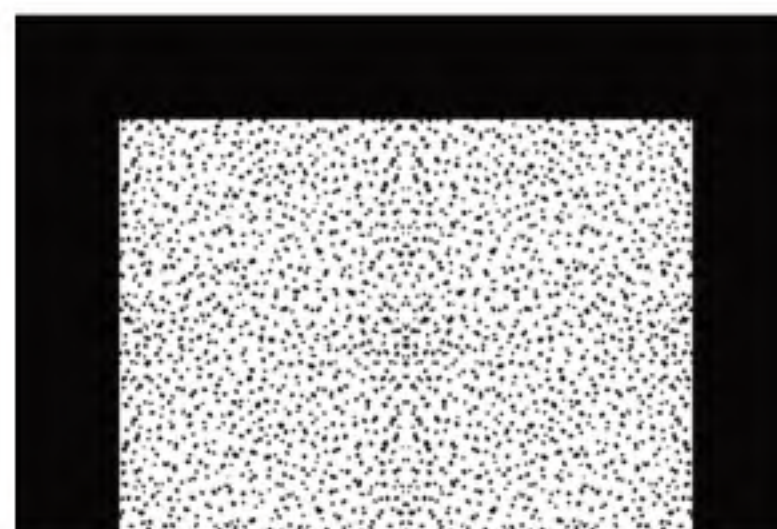
The standard configuration for our composite hatch seal profiles feature a solid Natural Rubber outer skin on three sides with an open cell, Natural Rubber sponge core. We have tested and perfected this configuration to achieve the best sealing rates across a wide variety of vessel types. However, we can easily change the configuration to match your current seal specification or to provide additional safety and resistance when required.

Aside from a selection of outer skin compounds we can also tailor the outer skin configuration to suit your application. We can increase and decrease the number of sides with the solid rubber skin in order to achieve optimal compression and sealing. There are a number of factors to consider, such as: the type of vessel, the type of door/hatch and the compression required.

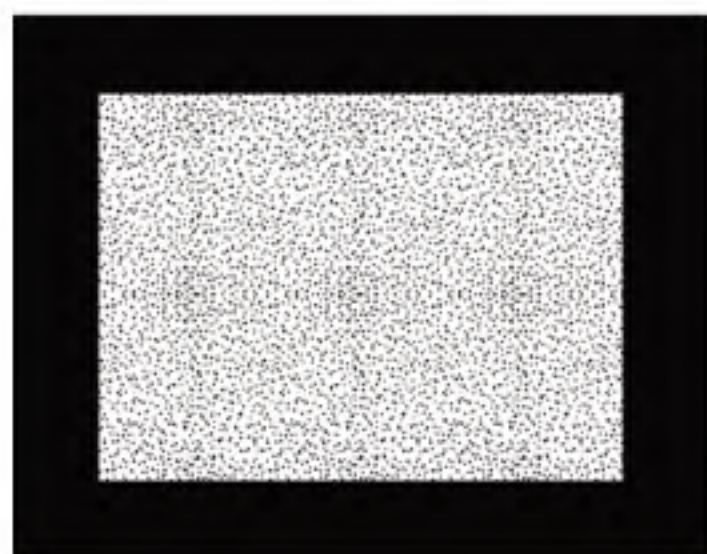
Solid Rubber Skin - 1 Side



Solid Rubber Skin - 3 Sides



Solid Rubber Skin - 4 Sides



Experts in Rubber

Safety Matting
Extrusions
Fendering
Fabrications
Mouldings
Sheeting
Sponge & Foam
Gaskets & Seals
Hose & Ducting
Noise Insulation
Custom Parts

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Company Number 08350831 | VAT Number GB 156 8355 80