

MARINE HATCH & VESSEL SEALING SOLUTIONS



The **RUBBER**[®]
company

Manufacturers · Designers · Distributors

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Manufacturers · Designers · Distributors

WHY CHOOSE THE RUBBER COMPANY?

We are the **rubber sealing experts**

The Rubber Company has over 100 years of experience in meeting customers' rubber product needs in a vast range of industries. We manufacture, convert and distribute rubber polymer and associated products. Our competence includes design support, material selection and specification, prototyping and full production.

The combination of our comprehensive product range and in-depth 'know how' means we are well placed to provide effective solutions for engineers and buyers who are facing the challenge of keeping industry moving.

As a company, we are committed to understanding and responding to our customers' needs with speed, efficiency and competitive pricing. We take great pride in our ability to meet demanding delivery requirements on a global scale. Your satisfaction is our top priority, and we are here to ensure that you receive the service you deserve, no matter where you are located.



HIGH-QUALITY RUBBER COMPOUNDS

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

EPDM

EPDM is a highly popular compound for use in the manufacture of marine hatch seals. It combines durable mechanical properties with excellent resistance against weathering, UV and ozone deterioration. This enables EPDM seals to be used in both interior and exterior applications without compromising 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

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

NITRILE

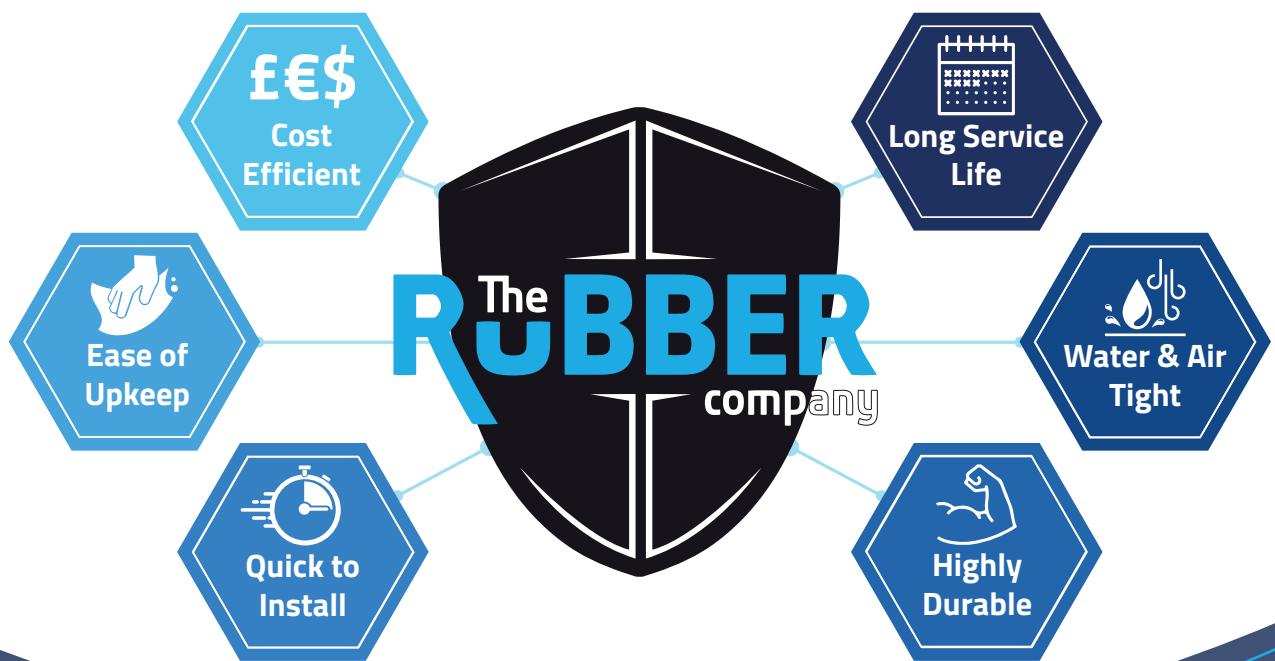
Nitrile rubber provides excellent resistance against oil and fuel deterioration. Nitrile also features good rates of flexibility, compression as well as a wide operating temperature range. This high-quality material is ideal for use in demanding and hazardous applications.



THE IMPORTANCE OF A GOOD SEAL

Maximising on functionality & durability

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.



We are committed to providing the best quality hatch seals available. Once installed, our seals will provide a complete watertight seal with 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. Our tried and tested hatch seals provide proven and reliable results for the safe operation of all types of vessels.



SEALING SOLUTION

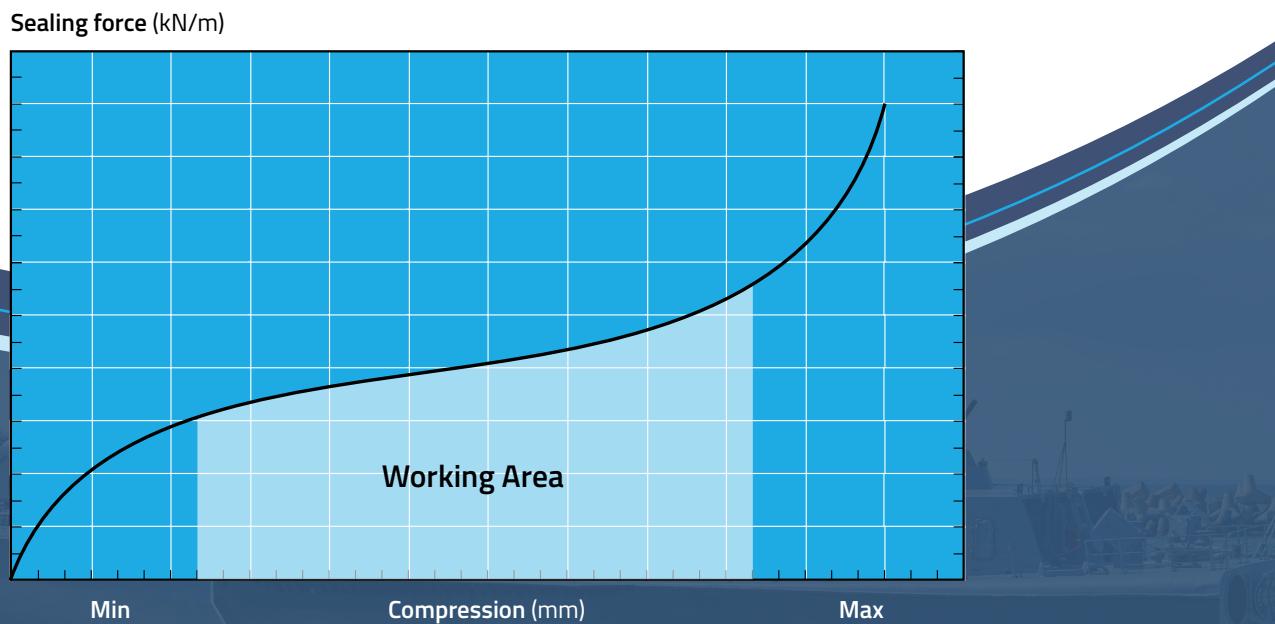
A suitable sealing force is required for the sealing system to function correctly.

To achieve a watertight seal, it is crucial that the entire sealing system is 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, creating 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.

KEY FEATURES

- **Easily slots into sealing gap with no large voids**
- **High compression rate to form a tight seal**
- **Keeps water and weather out**
- **Allows for hull and coaming deflections while at sea**
- **Keeps cargo and equipment dry**
- **Stops inert gases escaping the hull**
- **Quick and easy to install**
- **Highly durable and suitable for repeated use**

Our range of marine hatch sealing compounds have been tested and optimised to provide a good sealing force over a wide compression range. When choosing a seal, 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.



Example graph 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.

SEALING TYPES

COMPOSITE RUBBER HATCH SEALS



- Durable outer skin
- Compressible sponge core
- Chamfered edges available for perfect channel fit
- Easy to cut & install
- Corner & end pieces available
- Variety of outer skin compounds available

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



WHITE SPONGE HATCH SEALS

- Highly durable
- Wide temperature range
- Excellent UV & ozone resistance
- Airtight & watertight
- Maintains shape after long periods of use

BESPOKE & COLOUR MATCHING HATCH SEALS

- High tensile strength & tear resistance
- Available in complex shapes & designs
- Does not absorb water
- Maintains shape after long periods of use
- Available in a range of colours



COMPOSITE HATCH SEAL PROFILES

We have a large range of composite hatch seals in varying configurations and sizes as in the examples below:

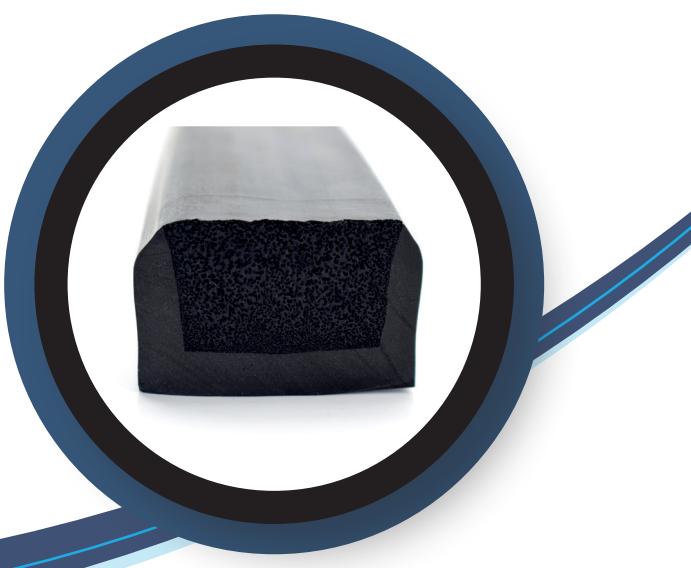
RUBBAHATCH-30X20	
Width (mm)	Height (mm)
30	20

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

RUBBAHATCH-40X20	
Width (mm)	Height (mm)
40	20

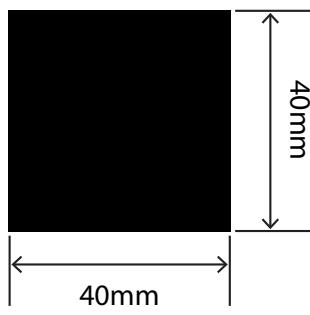
RUBBAHATCH-50X30	
Width (mm)	Height (mm)
50	30

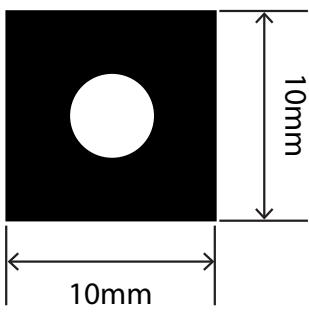
RUBBAHATCH-60X40	
Width (mm)	Height (mm)
60	40



SOLID RUBBER HATCH SEAL PROFILES

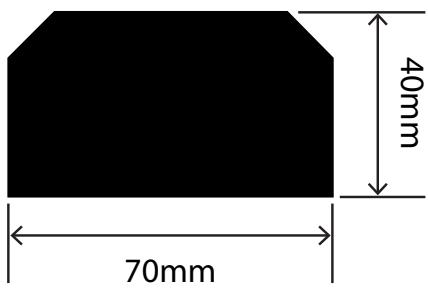
We have a large range of solid rubber hatch seals in varying configurations and sizes as in the examples below:

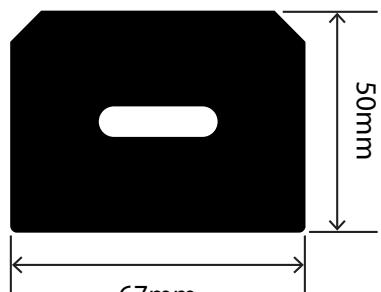
RC2500C	
	
Width (mm)	Height (mm)
40	40

RC88C	
	
Width (mm)	Height (mm)
10	10

RC550C	
	
Width (mm)	Height (mm)
50	11

RC1298C	
	
Width (mm)	Height (mm)
73	20

RC2700C	
	
Width (mm)	Height (mm)
70	40

RC3122C	
	
Width (mm)	Height (mm)
67	50

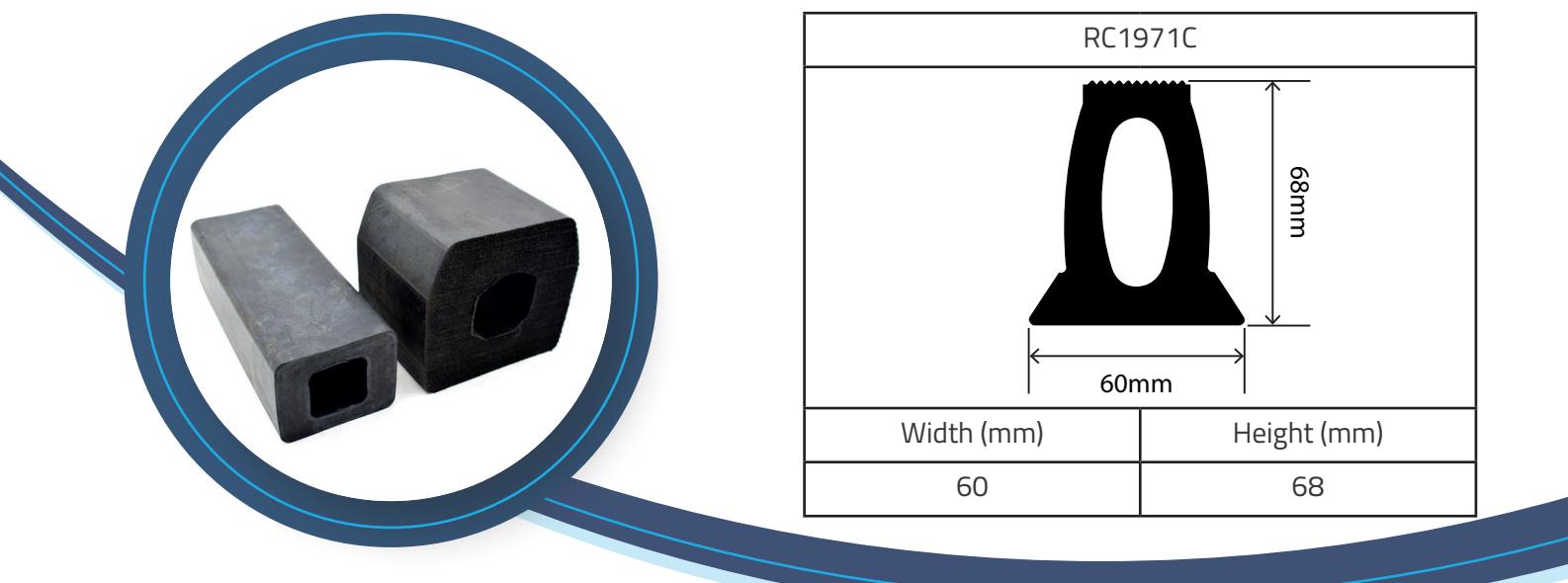
SOLID RUBBER HATCH SEAL PROFILES

RC5297C	
Width (mm)	Height (mm)
103	58

RC2121C	
Width (mm)	Height (mm)
60	47

RC3409C	
Width (mm)	Height (mm)
73	67

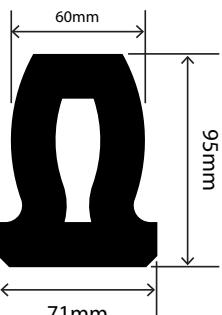
RC885C	
Width (mm)	Height (mm)
29.5	42



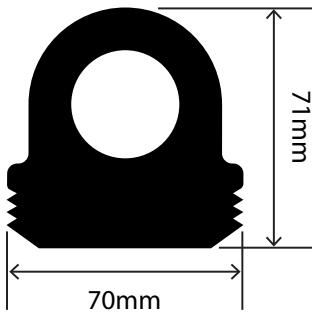
RC1971C	
Width (mm)	Height (mm)
60	68

SOLID RUBBER HATCH SEAL PROFILES

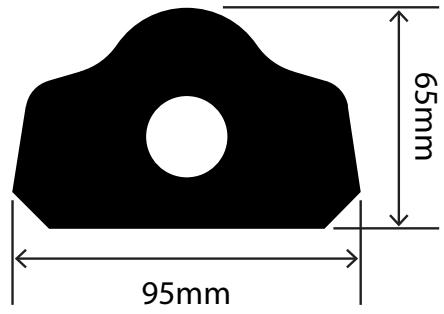
R4623C	
Width (mm)	Height (mm)
71	95



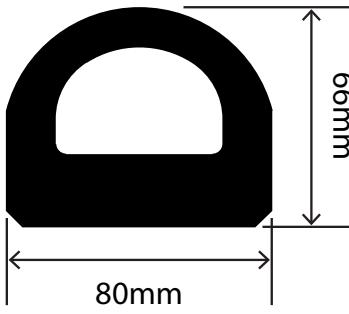
RC10190C	
Width (mm)	Height (mm)
70	71



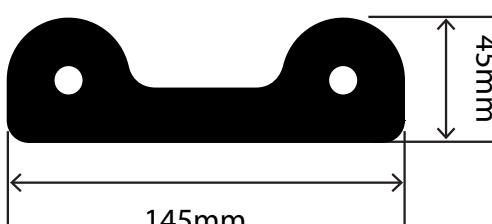
RC3945C	
Width (mm)	Height (mm)
95	65



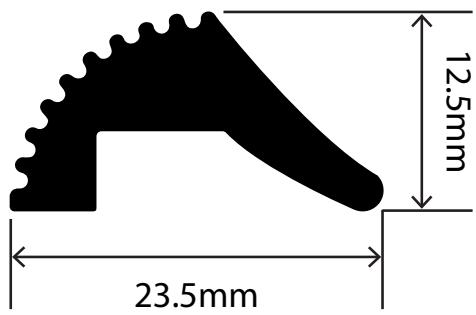
RC3425C	
Width (mm)	Height (mm)
80	66



RC4562C	
Width (mm)	Height (mm)
145	45

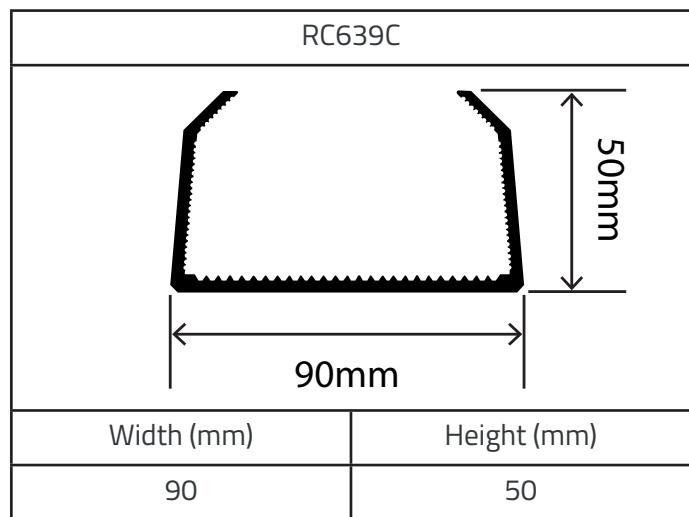
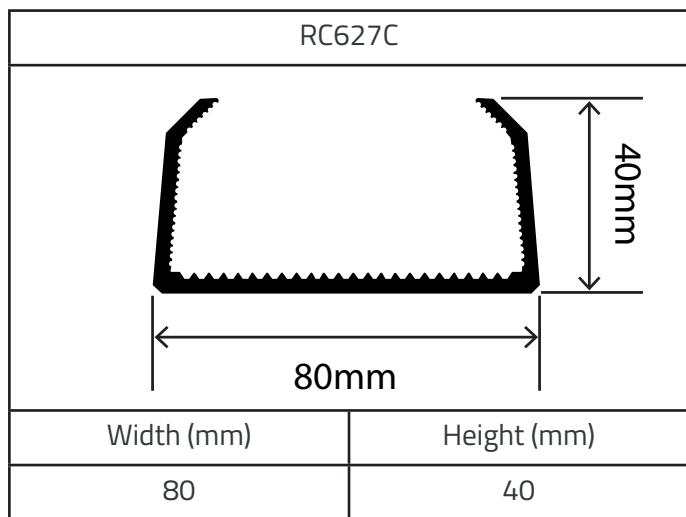
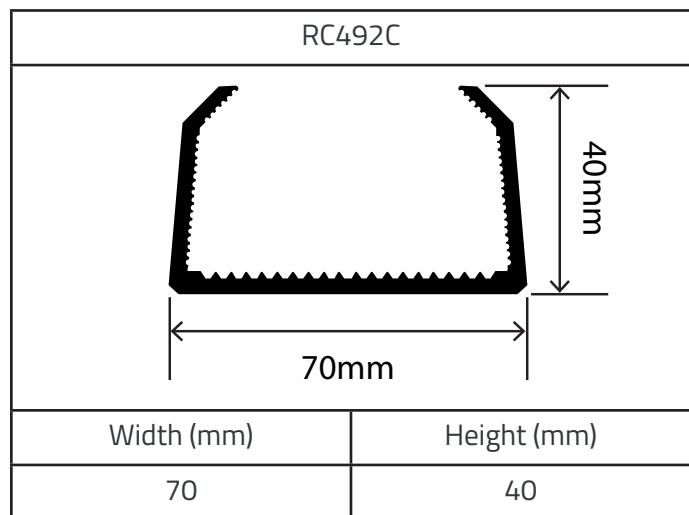
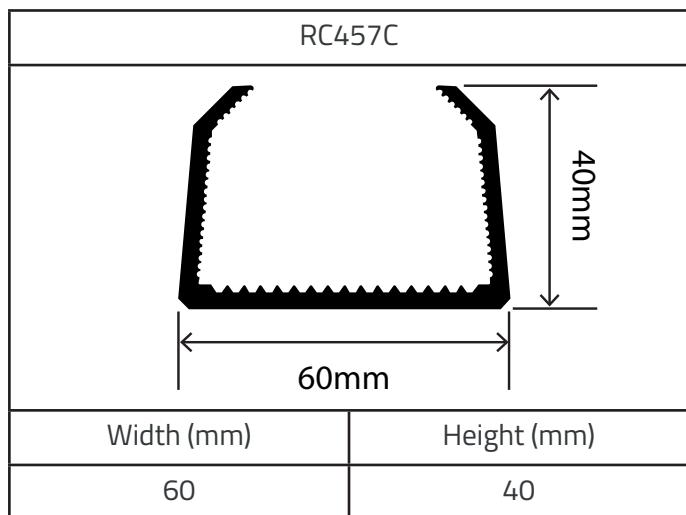


RC127C	
Width (mm)	Height (mm)
23.5	12.5



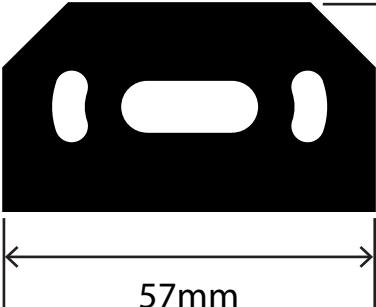
C/U TYPE SOLID HATCH SEAL PROFILES

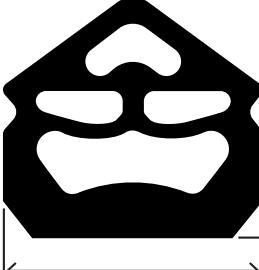
We have a large range of C/U type solid hatch seals in varying configurations and sizes as in the examples below:

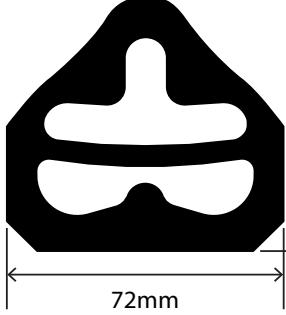


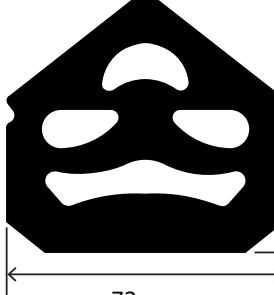
CAT TYPE HATCH SEAL PROFILES

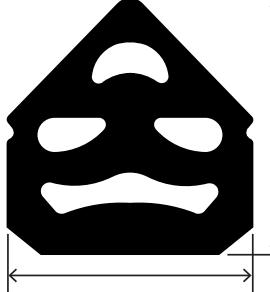
We have a large range of CAT type hatch seals in varying configurations and sizes as in the examples below:

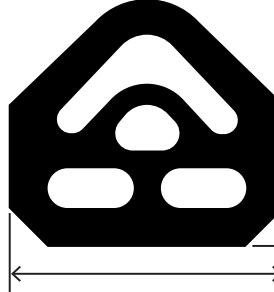
RC1469C	
	
Width (mm)	Height (mm)
57	32

RC2392C	
	
Width (mm)	Height (mm)
70	69

RC2434C	
	
Width (mm)	Height (mm)
72	67

RC2954C	
	
Width (mm)	Height (mm)
72	67

RC3264C	
	
Width (mm)	Height (mm)
72	75

RC3133C	
	
Width (mm)	Height (mm)
78	70

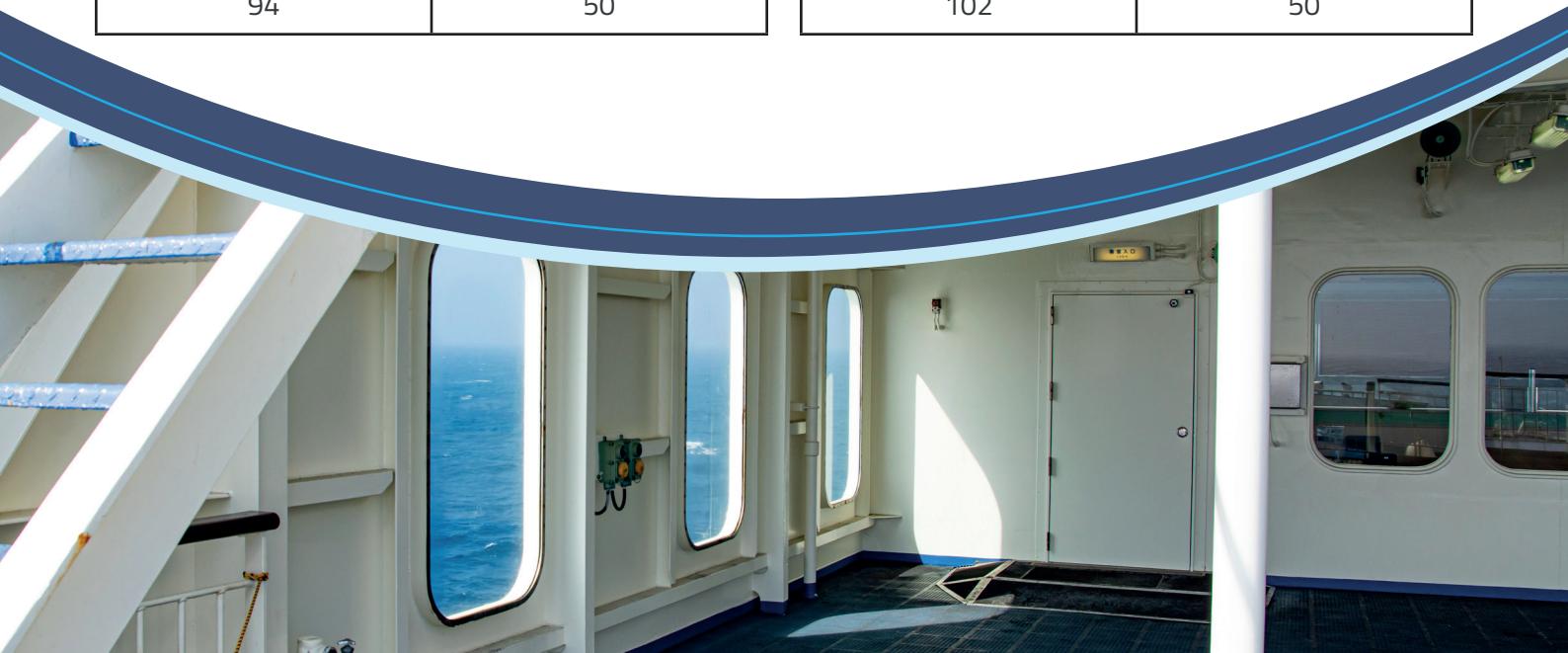
CAT TYPE HATCH SEAL PROFILES

RC2458C	
80	42
Width (mm)	Height (mm)

RC4578C	
92	66
Width (mm)	Height (mm)

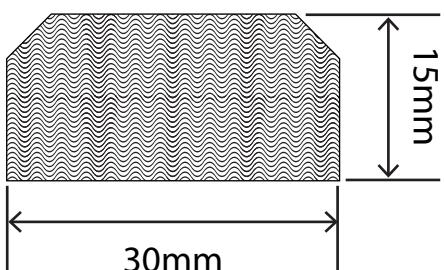
RC4111C	
94	50
Width (mm)	Height (mm)

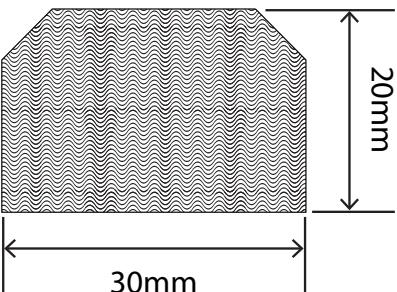
RC4194C	
102	50
Width (mm)	Height (mm)

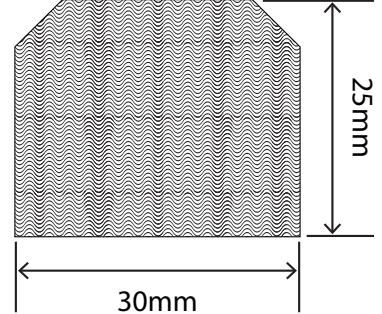


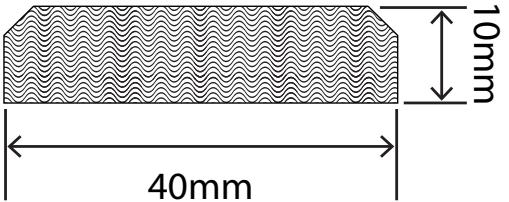
SPONGE HATCH SEAL PROFILES

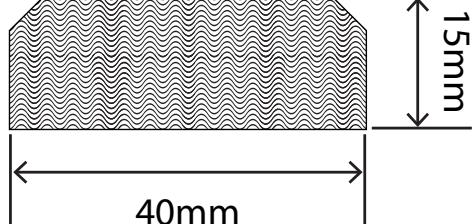
We have a large range of sponge hatch seals in varying configurations and sizes as in the examples below:

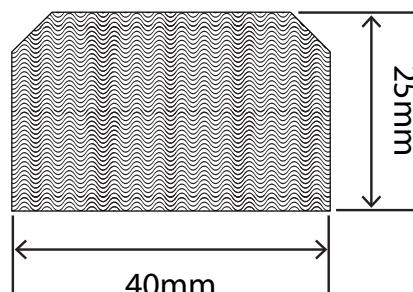
RC434C	
 A diagram showing a cross-section of a sponge hatch seal. It has a wavy, textured top surface and a flat bottom surface. The width is labeled as 30mm and the height as 15mm.	
Width (mm)	Height (mm)
30	15

RC575C	
 A diagram showing a cross-section of a sponge hatch seal. It has a wavy, textured top surface and a flat bottom surface. The width is labeled as 30mm and the height as 20mm.	
Width (mm)	Height (mm)
30	20

RC725C	
 A diagram showing a cross-section of a sponge hatch seal. It has a wavy, textured top surface and a flat bottom surface. The width is labeled as 30mm and the height as 25mm.	
Width (mm)	Height (mm)
30	25

RC391C	
 A diagram showing a cross-section of a sponge hatch seal. It has a wavy, textured top surface and a flat bottom surface. The width is labeled as 40mm and the height as 10mm.	
Width (mm)	Height (mm)
40	10

RC584C	
 A diagram showing a cross-section of a sponge hatch seal. It has a wavy, textured top surface and a flat bottom surface. The width is labeled as 40mm and the height as 15mm.	
Width (mm)	Height (mm)
40	15

RC975C	
 A diagram showing a cross-section of a sponge hatch seal. It has a wavy, textured top surface and a flat bottom surface. The width is labeled as 40mm and the height as 25mm.	
Width (mm)	Height (mm)
40	25

COMPOSITE HATCH CONFIGURATIONS

Different options **to suit your application**

We offer a range of composite and fabricated hatch seals to suit your exact requirements.

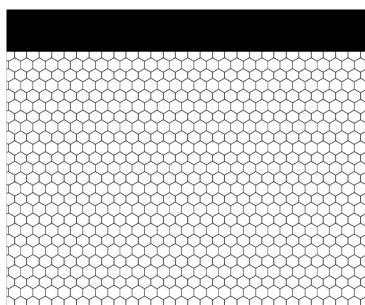


COMPOSITE HATCH SEALS

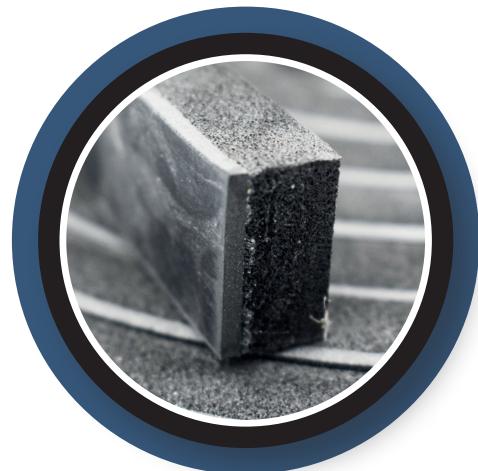
Our standard composite hatch seals are constructed with a cellular sponge inner core with a bonded solid rubber outer skin on three sides. The rubber outer skin can be supplied from a variety of rubbers to suit your application. We can also supply these with chamfered edges to assist with installation and allow for welds and other irregularities in the bottom of the channel. We have tested and perfected this configuration to achieve the best sealing rates across a wide range of vessels.

FABRICATED HATCH SEALS

We also offer fabricated hatch seals with a fast lead time. These are manufactured by bonding solid rubber sheeting to a sponge sheeting and cutting to size. These can be produced from different rubber and sponge types, and are most commonly produced with one solid rubber side. However, they can also be created with three or four solid sides if your application requires extra strength.



SOLID RUBBER SKIN 1 SIDE



When changing your configuration, there are a number of factors to consider, such as; the type of vessel, type of door/hatch and the compression required.

SILICONE INFLATABLE SEALS

Silicone rubber is a great choice for seals due to its flexibility, durability, heat-resistance, and chemical resistance. It is also highly waterproof with good weathering capabilities. Our silicone inflatable seals create a tight seal when inflated and have a working temperature range from -60°C to +200°C, with higher intermittent temperatures.

We can supply a wide variety of inflatable seals, which are the perfect solution for use in challenging sealing applications. Our inflatable seals are designed to be inflated with air (or a fluid), using a pressure regulated supply system. When pressure is applied, the seal will inflate to create an air and watertight barrier in order to protect against dust and other contaminants on uneven surfaces.

The expansion (sealing) capabilities of our inflatable seals varies between profiles, so the larger the expansion gap, the larger the profile that is required.

COMMON APPLICATIONS

- **Door and hatch seals**
- **Large doors with contrasting sealing surfaces**
- **Industrial applications that require a seal to quickly seal and unseal**
- **Horizontal and vertical sliding doors**

COLOUR MATCHING

Need a specific coloured seal? No problem! We are able to manufacture many of our silicone inflatable seals to any colour profile, accurately matching virtually any RAL number. This helps to ensure the seal blends in or, alternatively, you could opt for a contrasting colour.

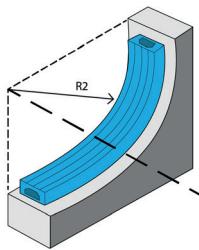


**COLOUR MATCHED,
TO YOUR REQUIREMENTS**

SEAL CONFIGURATIONS

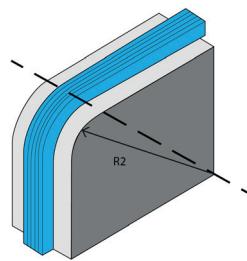
Our silicone inflatable seals can be manufactured in a wide variety of shapes and sizes to suit your specific application. We can supply them in continuous loops, which expand radially inwards and outwards, as well as axially, depending on usage. They can also be manufactured into axial expanding rectangles, 'U' shapes or other similar shapes, using pre-moulded corners.

RADIAL OUTWARD



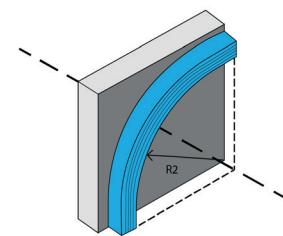
Radial outward seals are typically flat on one side which enables them to be installed on a variety of surfaces. Once inflated, the seal pushes upwards, away from the base, to provide a tight seal on any object it comes into contact with. Ideal for use in clamping applications.

RADIAL INWARD



Radial inward seals inflate outwards away from the centre of the seal. This provides equal sealing on both sides of the seal, making it perfect for use in applications which don't provide adequate surface to attach the seal to. You can clamp these types of seals in place or insert into a groove. Airlock doors often use this type of seal.

AXIAL



Axial seals are designed to inflate at a 90° angle away from the radius of the seal. They are ideal for sealing around corners or curved surfaces, making them popular in door and hatch seal applications.

Common seal configurations showing the minimum bend radii for radial inward, outward, and axial expansion. We can also supply straight lengths, rectangles with moulded corners, and goal-post shaped inflatable seals.

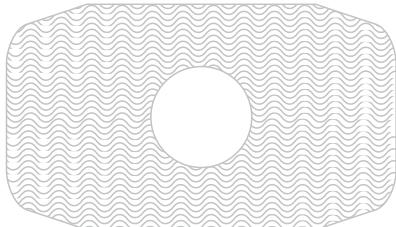
WHITE SPONGE SEALING SOLUTIONS

Maintain a Luxury Finish

We understand that appearance is important when dealing with yachts and cruise vessels, so we have a range of white silicone rubber sponge extrusions available.



WHITE SILICONE SQUARE SEAL



WHITE SILICONE ROUND SEAL

Aside from our standard range of black sponge rubber seals, we can produce sponge extrusions in white silicone. We have found that our customers tend to prefer white seals for interior and user-facing applications. These seals enable you to maintain a luxury finish throughout the entire vessel. Silicone sponge combines the flexibility and compressibility of our standard sponge profiles with excellent high-temperature resistance. Silicone sponge is also low-maintenance, while still providing a long service life. This enables you to use our white sponge silicone seals in everything from hatch seals to interior trim and upholstery.



**LUXURY FINISH,
LONG SERVICE LIFE**

OTHER MARINE PRODUCTS

We have a wide range of marine products available, from non-slip flooring and matting to large pneumatic rubber fenders. Our products are manufactured to the highest standards, meeting a range of British standards. We are always keen to work directly with our customers, and can assist you in every step of the way.

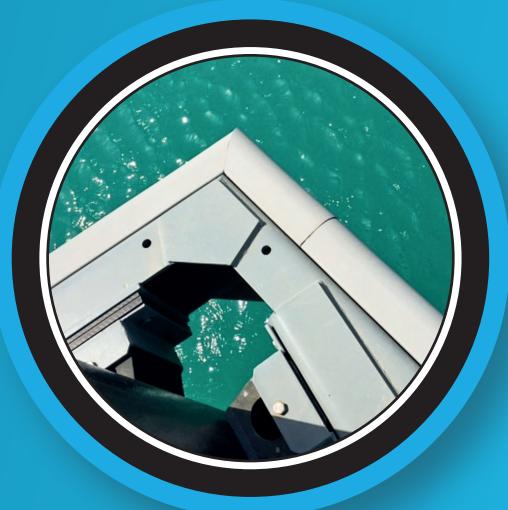


MATTING & DECK TILES

- Wye rubber matting
- Flexi-Deck tiles
- Anti-slip PVCLine

RUBBER FENDERS

- Pneumatic rubber fenders
- Non-marking fenders
- Cell & cone fenders
- D / B / M / W fenders
- Keyhole fenders



MARINE HOSES

- Rubber water hoses
- Exhaust hoses
- Cleaning hoses
- Fuel hoses
- Sanitation hoses



Manufacturers · Designers · Distributors

THE RUBBER COMPANY

Offering the best solutions for marine sealing and hatch packing, at the most competitive market pricing.

Contact us now with your requirements:

 sales@therubbercompany.com

 +44(0) 1794 513 184



Working with
companies worldwide

