

# EXTRUDED RUBBER PRODUCTS

A COMPREHENSIVE GUIDE FOR ALL OF YOUR RUBBER EXTRUSION NEEDS



ISO  
9001 : 2015  
REGISTERED



Manufacturers · Designers · Distributors

Experts in  
**Rubber**

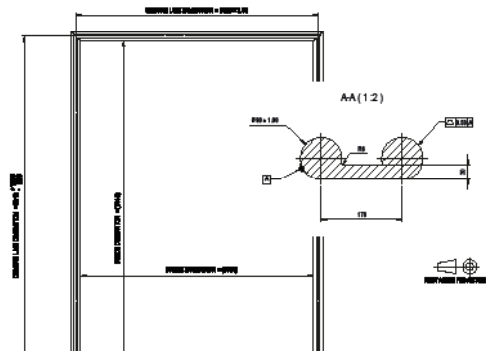
# MANUFACTURING CAPABILITIES

The Rubber Company manufacture rubber extrusions from an extensive range of material specifications, compounds, grades and hardnesses. We work closely with companies in various sectors and industries and, with over 100 years' experience, are well placed to offer advice at all stages of your requirement.

This brochure is designed to give you an overview of rubber profiles offered. Extrusions are available as standard off-the-shelf items, produced from existing tooling, manufactured to order with short production lead times, or specifically developed, with versatile options and for wide ranging applications.

## Bespoke Design & Manufacturing

The Rubber Company provide a bespoke design and manufacturing service. Our dedicated team can work directly with you on everything from the profile design to material selection to suit the application and ensure that your extrusion will feature good performance characteristics, for longer profile life expectancy.

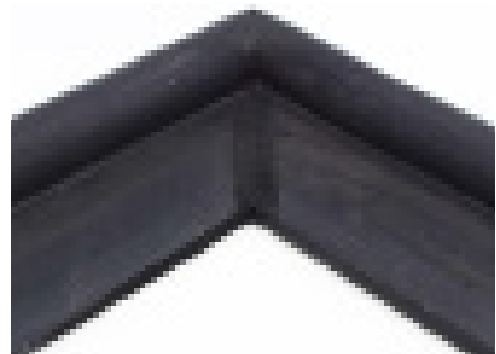


## Material Compound Flexibility

At The Rubber Company we can offer a wide choice of material compounds, grades and finishes. Depending on your application, a solid rubber extrusion may be too hard and not flexible enough, and we offer a wide selection of sponge rubber profiles. We can also provide composite extrusions which are typically manufactured from two or more different materials, and work directly with material compounders to select a material that perfectly suits your application.

## Fabrication & Joining

In some applications you may require multiple extrusions to be joined together. This may be to create a watertight seal, or to fit in or around a specific object or bend radius. At The Rubber Company we employ a variety of rubber to rubber welding solutions in order to create a secure join. This is often much more cost and time efficient than creating a profile mould, while still providing excellent join strength and flexibility.



# MATERIAL FINISHING OPTIONS

## Manufacturing to Material Specifications

For special use applications such as medical, food, construction or transportation industries, we can supply a wide variety of manufacturing material standards and grades. Flame Retardant (EN45545-2), FDA approved or Anti-Static compound specifications, amongst many others, are available to suit application or working environment, or to conform to required health and safety regulations.

## RAL Colour Matching

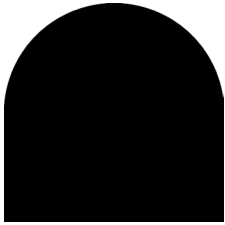
Many of our rubber compounds are available in black as standard, but at The Rubber Company we have the ability to offer a RAL colour matching service to suit branding and aesthetics. This typically applies to Silicone or TPE rubber compounds during the manufacturing process, and in addition, we can also produce certain materials in non-marking grades.

## Material Properties Guide

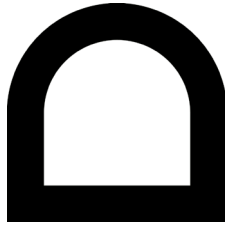
	Natural	SBR	Butyl	Nitrile	Neoprene	EPDM	Silicone	Viton	Polyurethane	Hypalon	Epichlorhydrin	Fluorosilicone
Hardness (Shore A)	30° - 90°	40° - 90°	40° - 70°	40° - 95°	40° - 95°	40° - 90°	30° - 85°	55° - 95°	35° - 99°	40° - 95°	40° - 95°	40° - 80°
Tear Resistance	Very Good	Fair	Good	Fair	Good	Fair	Poor	Fair	Excellent	Excellent	Fair	Fair
Abrasion Resistance	Excellent	Very Good	Good	Excellent	Good	Good	Poor	Good	Outstanding	Excellent	Good	Good
Compression Set	Good	Good	Fair	Good	Fair	Good	Fair	Fair	Fair	Fair	Fair	Fair
Rebound – Cold	Excellent	Good	Poor	Good	Very Good	Very Good	Excellent	Fair	Good	Good	Poor	Excellent
Rebound – Hot	Excellent	Good	Very Good	Good	Very Good	Very Good	Excellent	Good	Good	Good	Poor	Good
Dielectric Strength	Excellent	Excellent	Excellent	Poor	Good	Excellent	Good	Good	Excellent	Excellent	Good	Good
Electrical Insulation	Very Good	Very Good	Very Good	Poor	Fair	Excellent	Excellent	Fair	Fair	Good	Fair	Excellent
Gas Permeability	Fairly Low	Fairly Low	Very Low	Low	Low	Fairly Low	Fairly Low	Very Low	Fairly Low	Fairly Low	Fairly Low	Fairly Low
Adhesion Properties	Good	Good	Good	Good	Good	Poor	Fair	Good	Fair	Fair	Fair	Fair
Water Absorbtion	Very Good	Very Good	Very Good	Good	Good	Very Good	Excellent	Very Good	Good	Very Good	Good	Good
Oxidation	Good	Fair	Excellent	Good	Very Good	Excellent	Excellent	Outstanding	Excellent	Excellent	Good	Excellent
Ozone Resistance	Poor	Poor	Excellent	Fair	Very Good	Outstanding	Excellent	Outstanding	Excellent	Outstanding	Very Good	Excellent
Sunlight Ageing	Poor	Poor	Very Good	Poor	Very Good	Outstanding	Excellent	Outstanding	Good	Outstanding	Good	Very Good
Heat Ageing	+85/-40	+90/-40	+120/-20	+115/-20	+95/-20	+145/-40	+305/-100	+205/-20	+80/-40	+120/-20	+120/-40	+200/-100
Heat Resistance	Good	Fair	Very Good	Good	Very Good	Excellent	Outstanding	Outstanding	Good	Excellent	Very Good	Good
Cold Resistance	Excellent	Very Good	Good	Fair	Good	Excellent	Outstanding	Good	Excellent	Good	Fair	Excellent

# POPULAR EXTRUSION PROFILE TYPES

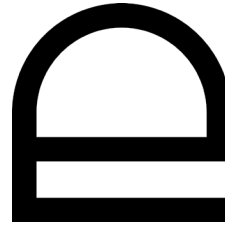
## D Type



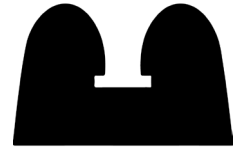
Solid D



Hollow D

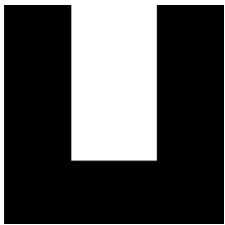


E Profile

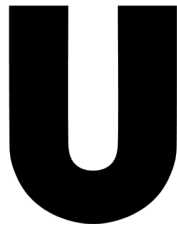


Double D / B

## U Channel Type



Square U



Round U



U With Bulb



Self Gripping U

## P & Bead Type



Solid P Profile



Hollow P Profile

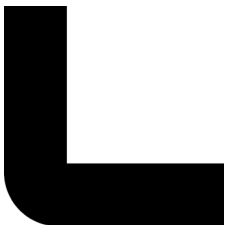


Tadpole Profile

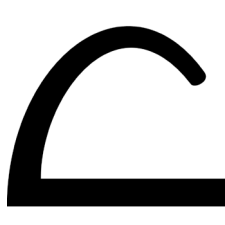


Double P Profile

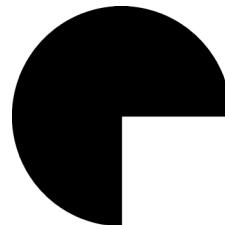
## L & Angle Type



Straight L



Curved L

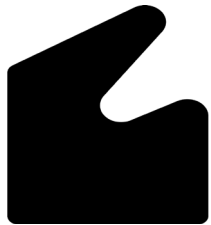


Round L



Angle Profile

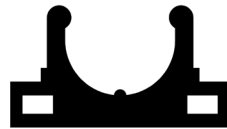
## Lip Seal Type



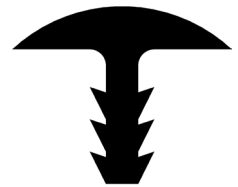
Solid Lip Seal



Hollow Lip Seal



Channel Lip Seal

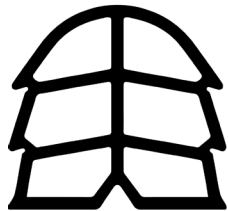


T Shape Lip Seal

## Expansion Seal Type



Solid Expansion



Hollow Expansion



Dilated Type 1



Dilated Type 2

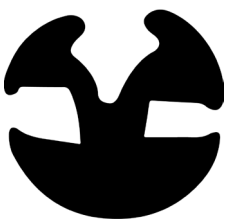


Dilated Type 3



Dilated Type 4

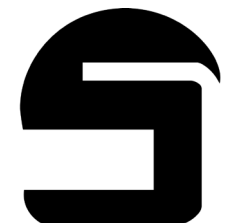
## Glazing Seal Type



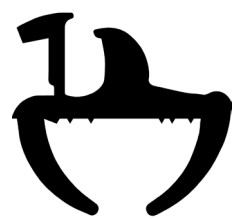
Claytonrite Seal



Glazing Filler Strip



S Type Glazing



Caravan Window

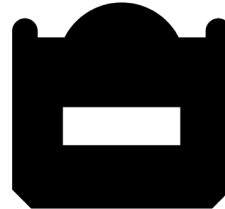
## Hatch Seal Type



Solid Hatch Seal



Angled Hatch Seal

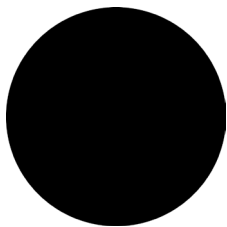


Hollow Hatch Seal

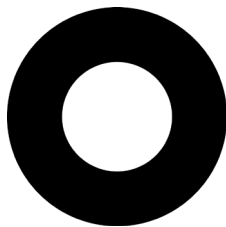


MacGregor Seal

## Cord & Tubing Type



Solid Cord



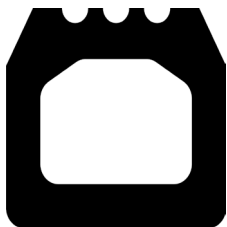
Hollow Tube



Multimen Tube



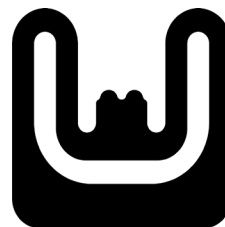
## Inflatable Seal Type



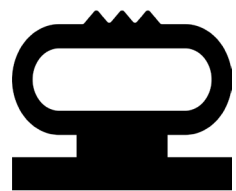
Castellated Seal



Channel Fit

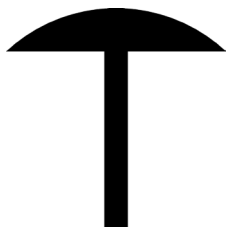


Frog Leg Seal

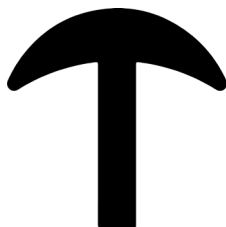


Stem Location Seal

## Weighbridge & T Type



Weighbridge Seal



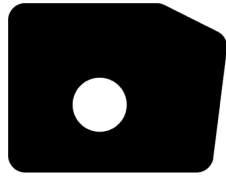
T Seal



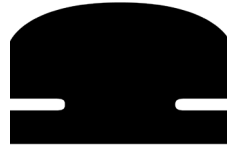
## Grab Rubber Type



Lorry Crane Type



Lorry Crane Type

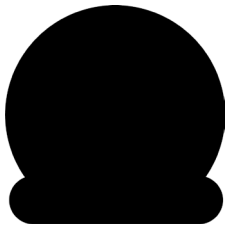


Slide Fixing



Square Fixing

## Cab Tyre Type



Round Cab Tyre



Square Can Tyre



## Cable Protector Type



Easy Fit



Multi Fit



Hazard Warning



Heavy Duty

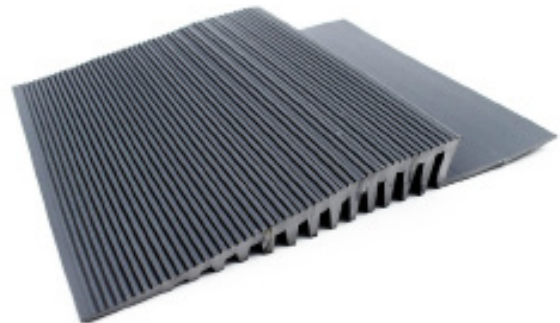
## Ramp Edge Type



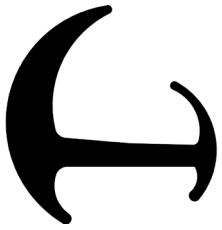
Smooth Edge



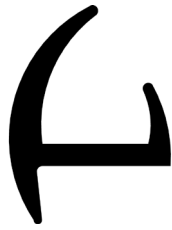
Ribbed Edge



## Container Door Seal Type



H Type



J Type



## Snap Clamp Seal Type



Square Clamp 1



Square Clamp 2

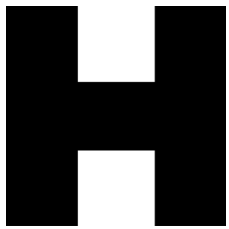


Round Clamp 1

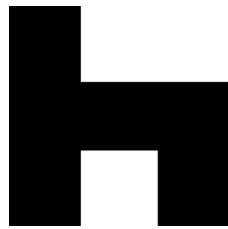


Round Clamp 2

## Miscellaneous Profile Type



H Type



H Type



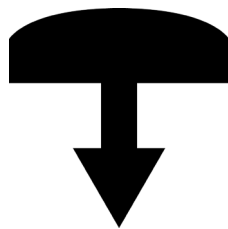
Rubber Strip



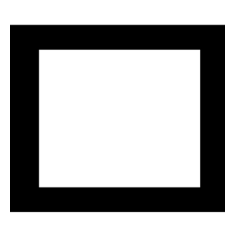
C type



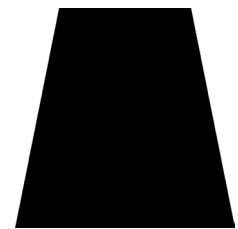
Draught Excluder



Capping Profile



Box Profile



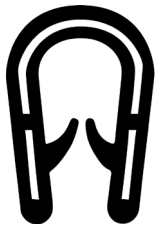
Trapezium Profile



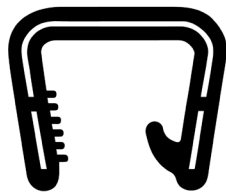
# COMPOSITE RUBBER EXTRUSIONS

The Rubber Company's composite extrusions are manufactured with two or more different materials to enhance performance for specific applications. A good example of this would be our Self-Grip Seals, which comprise of a solid channel section, reinforced with a metal or rigid polymer for optimal self-grip to panels, and further closed cell sponge section to seal against ingress of liquid or gas. We have a wide range of profiles of varying dimensions for many applications demanding high-performance, simple to fit waterproof seals.

## Self Grip Edge Trim Type



Self Grip Profile



Wide Self Grip Profile



## Composite Door & Window Seal Type



Top Seal Profile



Door Seal Profile



Door Seal Profile



Caravan Window

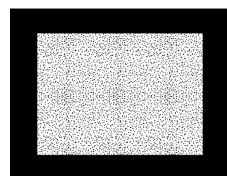
## Composite Hatch Seal Type



Square Type



Chamfered Edges



Skin On All Sides

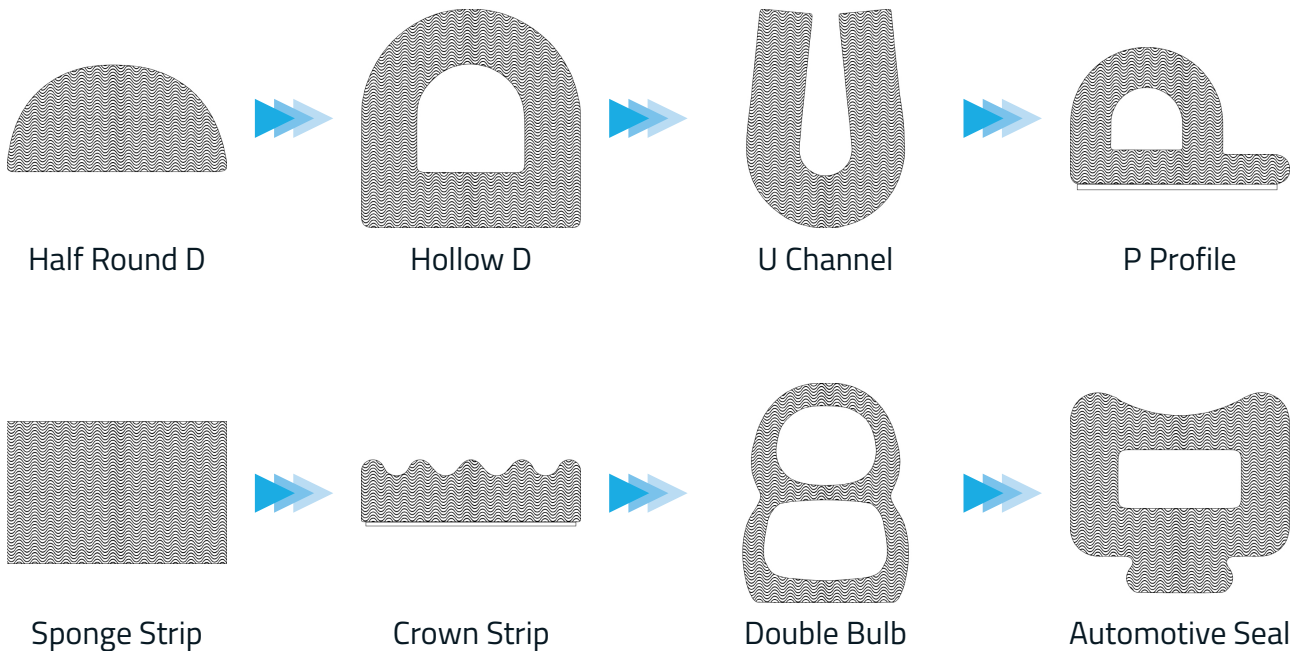


Skin On One Side

# SPONGE RUBBER EXTRUSIONS

Sponge rubber extrusions can provide superior performance over solid rubber extrusions in a number of applications. Many of our sponge profiles are manufactured using a high quality, closed-cell sponge rubber. This enables our profiles to create an air and watertight seal with minimal compression. Superior rates of compression and flexibility enables sponge extrusions to create a seal against uneven and contrasting surfaces. Sponge rubber extrusions are also much softer to the touch compared to solid rubber extrusions. This can be a key feature when working with personal protection and skin contact applications.

## Sponge Rubber Type





# SUPPLYING INDUSTRIES WORLDWIDE

## Construction



## Food & Beverage



## Marine & Superyacht



## Medical & Pharmaceutical



## Offshore

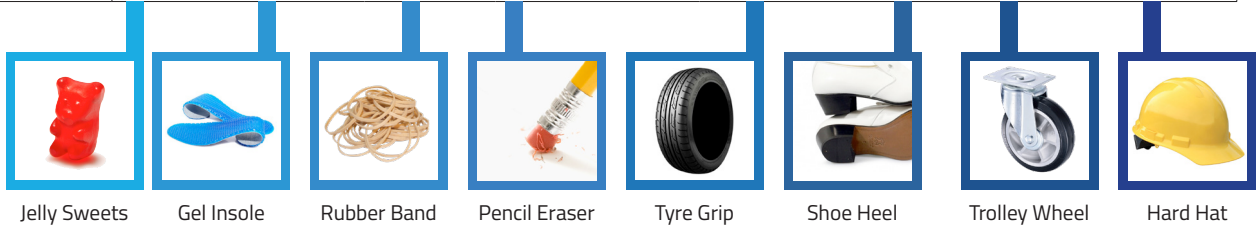


## Transportation & Rail



## Shore Hardness Comparison Chart

Type	Hardness																				
	Extra Soft						Soft			Medium Soft			Medium Hard			Hard		Extra Hard			
Shore (00)	0	10	20	30	40	50	60	70	80	90	100										
Shore (A)	0						10	20	30	40	50	60	70	80	90	100					
Shore (D)											0	10	20	30	40	50	60	70	80	90	100



Jelly Sweets

Gel Insole

Rubber Band

Pencil Eraser

Tyre Grip

Shoe Heel

Trolley Wheel

Hard Hat

## Rubber Tolerance Standard

ISO 3302-1: 2014

Rubber-Tolerances for products

Nominal Dimension		Class E1 +/-	Class E2 +/-	Class E3 +/-
Above	Up to and including			
0.0mm	1.5mm	0.15mm	0.25mm	0.40mm
1.5mm	2.5mm	0.20mm	0.35mm	0.50mm
2.5mm	4.0mm	0.25mm	0.40mm	0.70mm
4.0mm	6.3mm	0.35mm	0.50mm	0.80mm
6.3mm	10.0mm	0.40mm	0.70mm	1.00mm
10.0mm	16.0mm	0.50mm	0.80mm	1.30mm
16.0mm	25.0mm	0.70mm	1.00mm	1.60mm
25.0mm	40.0mm	0.80mm	1.30mm	2.00mm
40.0mm	63.0mm	1.00mm	1.60mm	2.50mm
63.0mm	100.0mm	1.30mm	2.00mm	3.20mm
100.0mm	-	1.3%	2%	3.2%



# Experts in Rubber

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

Call us now: +44 (0) 1794 513 184



Working with companies  
worldwide



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