SILICONE EXTRUSIONS EPDM EXTRUSIONS RUBBER STRIPS & SEALS

HOLLOW ROUND SILICONE TUBING,
SILICONE CORDS (SQUARE & ROUND)
SILICONE SPONGE CORD (SQUARE & ROUND CORDS)
NEOPRENE ROUND SPONGE CORDS
CUT NEOPRENE & EPDM PLAIN AND SELF ADHESIVE
RUBBER MOULDINGS,PLASTIC MOULDINGS

Over 1500 tools available

GEORGE CULLEY (Rubber & Plastics)

8 Waddington Fold, Burnedge,

Rochdale, Lancashire OL16 4QB, ENGLAND

Tel: 0560 344 9596 (VOIP) OR: 0161 622 0020

Fax: 0560 344 9597 (VOIP) OR: 0161 622 0010

Email: gculley251@aol.com

www.rubber-extrusions-seals.co.uk

SEE OUR DRAUGHT EXCLUDER & WEATHER STRIP CATALOGUE

MANUFACTURERS,STOCKISTS & AGENTS FOR: BRUSH STRIPS,DRAUGHT EXCLUDERS,WEATHER STRIPPING FOR DOORS & WINDOWS,INDUSTRIAL SEALS,SOLID RUBBER,SPONGE RUBBER,EXTRUSIONS IN SILICONE. ALSO THE FOLLOWING: EPDM,NEOPRENE,NITRILE,NATURAL RUBBER, WHITE, BLACK & COLOURED RUBBER,RIGID AND FLEXIBLE PLASTIC EXTRUSIONS,PVC, FOAMED EXTRUSIONS,O RINGS, QUAD RINGS, WASHERS IN ALL POLYMERS, SHIMS,BUNGS,SOLID AND HOLLOW BALLS, FEET,EXTRUDED ROUND AND SQUARE CORDS,DIP MOULDINGS, GASKETS, RUBBER OR PLASTIC STRIPS,VITON, SHEET MATERIAL, INSULATION, POLYETHYLENE, POLYURETHANE, MACHINED PLASTIC,ACRYLICS,MILLING,CUTTING OF EXTRUSIONS,HOSES,REINFORCED PVC TUBING,SILICONE TUBING,HOSES, REINFORCED PVC TUBING,SILICONE TUBING,BRASS RODS,FOAM STRIPS,COMPLEX AND EASY EXTRUSIONS FURNITURE TRIMS,CLOSED CELL AND OPEN CELL FOAM STRIPS, PLAIN AND ADHESIVE BACKED ALL INDUSTRIAL COMPONENTS.....ETC......

A FULL RUBBER AND PLASTICS SERVICE TO ALL

GEORGE CULLEY ~~ INDEX

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SILICONE EXTRUSIONS over 1500 tools available

Whilst a lot of sections are stocked, we will remake for a minimum of 25 metres

GENERAL PURPOSE COMPOUNDS

Silicone rubber is strong, resilient and stretchable at temperatures where organic rubber fails. All silicone is available in a range of shore hardness and colours. General Purpose is serviceable up to 200 degrees Centigrade with special grades useful for limited service up to 315 degrees Centigrade. It also has excellent low temperature flexibility and is used successfully for prolonged periods at - 65 degrees Centigrade. Main colours available are white, black and translucent. We are able to quote for other all colours, subject to volume requirement.

- * Excellent dielectric strength and insulation properties
 - * Low moisture absorption, inherently hydrophobic
 - * Ozone and corona resistant
- * Thermal, oxidation and radiation resistant, virtually non existent in other polymers
 - * Resistant to weathering, ageing and sunlight
 - * Contains no sulphur or other acidic producing chemicals, causing no staining nor corrosion
- * Will not support the growth of fungus when properly cured with correct catalyst
 - * Excellent thermal insulation properties
 - * Under most conditions provides excellent release from sticking
- * In contrast, can be bonded to most surfaces, using RTV, or to itself to form rings
 - Vibration dampening, absorbs energy over a wide range of frequencies
 Food quality

Thinner walls possible, enabling better seals andmore complex sections

* Available in sponge, 40, 50, 60, 65, 70, 75 and 80 shore hardness

SPECIALIST GRADES

SILICONE & EPDM & NEOPRENE SLEEVING & TUBING (IN SOLID RUBBER AND FOAMED SECTIONS):

From a fine hollow 0.25mm bore to 100mm bore ie towards layflat tubing. Any bore/wall combinations made to your specification. Silicone Tubing is normally available within 2 weeks if not in stock although we carry a wide range in stock.

A list of the dies available is on the following page.

SILICONE & EPDM SOLID CORDS, ROUND & SQUARE:

Solid 'O' Ring cords in neoprene, nitrile, EPDM or silicone. A list of the dies available is on the following page. We are able to quote for other sizes, subject to volume requirement.

SILICONE, EPDM, NEOPRENE STRIPS:

Solid strips in neoprene, nitrile, EPDM or silicone. Thickness and width to your specification, subject to a minimum order quantity of 25 metres – normally available within 2 weeks.

PROFILES & SECTIONS:

Thousands of dies are available.

OR

PLEASE FORWARD YOUR DRAWINGS OR PIECES FOR PRICING, WE WILL CARRY OUT A DIE SEARCH TO SEE IF WE HAVE A CLOSE SECTION AVAIALBLE.

PLEASE E MAIL GCULLEY251@AOL.COM
OR FAX 0560 344 9596 WITH DRAWINGS OR SKETCHES

Silicone Tubing - dies available:

Inside diameter (mm):

0.50	3.50	7.00	10.50	14.00	17.50
0.75	4.00	7.50	11.00	14.50	18.00
1.00	4.50	8.00	11.50	15.00	18.50
1.50	5.00	8.50	12.00	15.50	19.00
2.00	5.50	9.00	12.50	16.00	19.50
2.50	6.00	9.50	12.70	16.50	20.00
3.00	6.50	10.00	13.00	17.00	25.00

Wall thickness (mm):

0.50	0.70	0.80	1.00	1.50	2.00	3.00
3.50	4.00	5.00	6.00	6.35	7.00	10.00

Silicone Sponge Cord (round) – dies available:

Outside diameter (mm):

2.00	2.50	3.00	3.50	4.00	4.50
5.00	5.50	6.00	6.50	7.00	7.50
8.00	8.50	9.00	9.50	10.00	10.50
11.00	11.50	12.00	12.50	13.00	13.50
14.00	14.50	15.00	15.50	16.00	16.50
17.00	17.50	18.00	18.50	19.00	19.50
20.00	20.50	21.00	21.50	22.00	22.50
23.00	23.50	24.00	24.50	25.00	

Silicone, EPDM, Sponge & Solid Strip (square) – dies available:

Size (mm X mm):

2.00	2.50	3.00	3.50	4.00	4.50
5.00	5.50	6.00	6.50	7.00	7.50
8.00	8.50	9.00	9.50	10.00	10.50
11.00	11.50	12.00	12.50	13.00	13.50
14.00	14.50	15.00	15.50	16.00	16.50
17.00	17.50	18.00	18.50	19.00	19.50
20.00	20.50	21.00	21.50	22.00	22.50
23.00	23.50	24.00	24.50	25.00	

There is also a wide range of rectangular strips available.

EPDM And Neoprene ~ Solid & Sponge Cord (round) - dies available:

Size (mm):

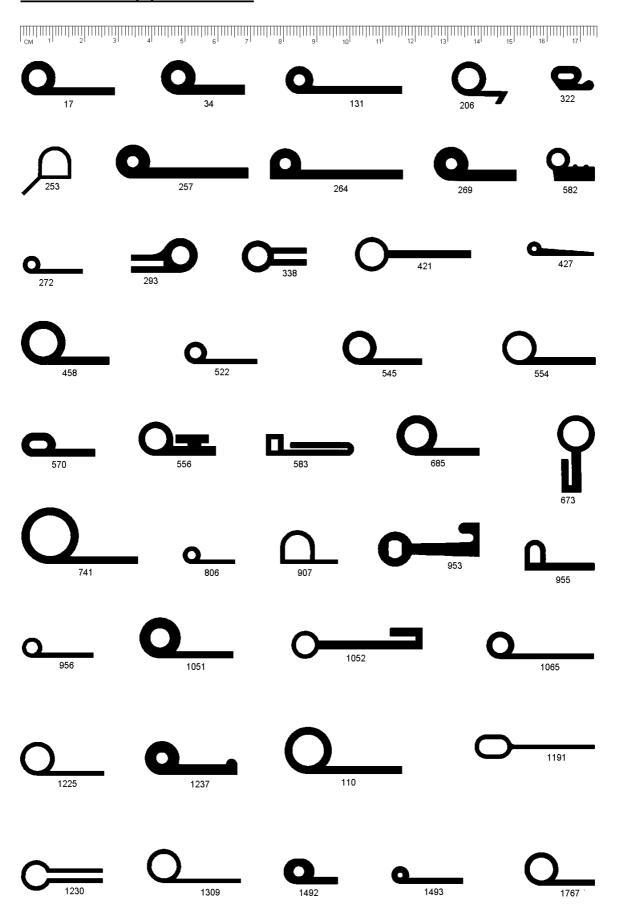
2.00	2.50	2.80	3.00	3.20	3.50
4.00	4.50	4.75	5.00	5.50	6.00
7.00	8.00	9.00	9.50	10.00	12.00
13.00	15.00	19.00	20.00	25.00	30.00

IF WE DO NOT HAVE AN EXACT DIE TO PRODUCE THE EXTRUSION YOU NEED WE CAN MANUFACTURE THE TOOLING IN HOUSE AND PRODUCE A SMALL SAMPLE FOR APPROVAL PRIOR TO RECEIVING A BULK ORDER.

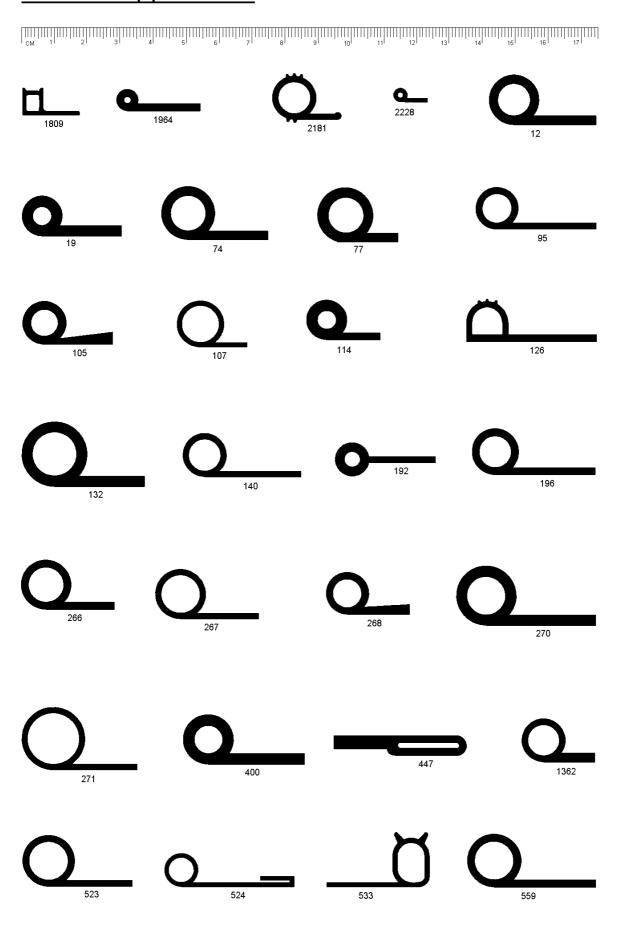
WE CAN EXTRUDE ANY SILICONE SHAPE. MOST DIES ARE AVAILABLE WITHIN 2-3 WEEKS.

WE SHOULD BE PLEASED TO RECEIVE A SKETCH OF THE PROFILE YOU REQUIRE SO WE MAY PROVIDE YOU WITH OUR QUOTATION.

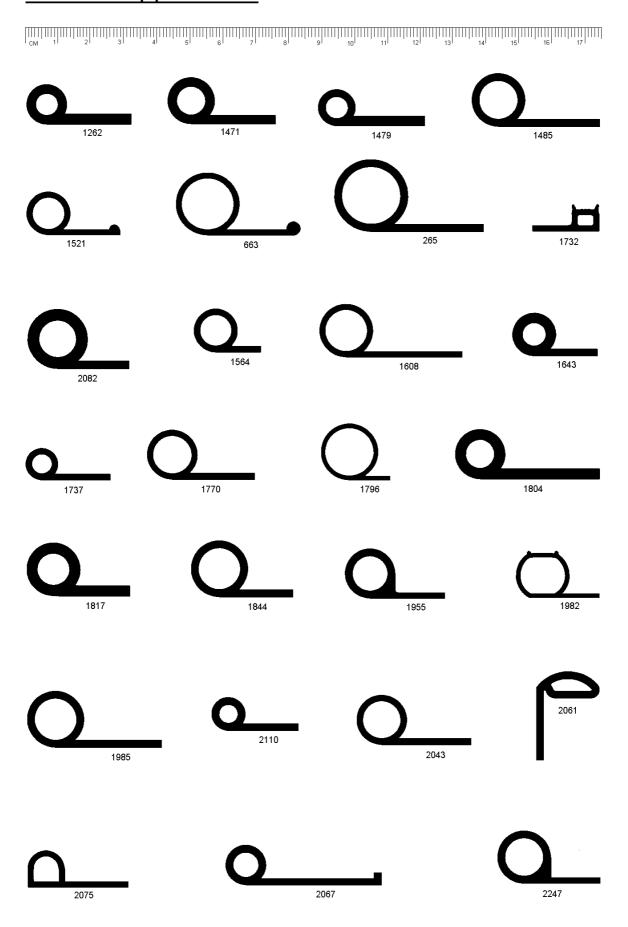
P-SECTIONS (1) - SILICONE



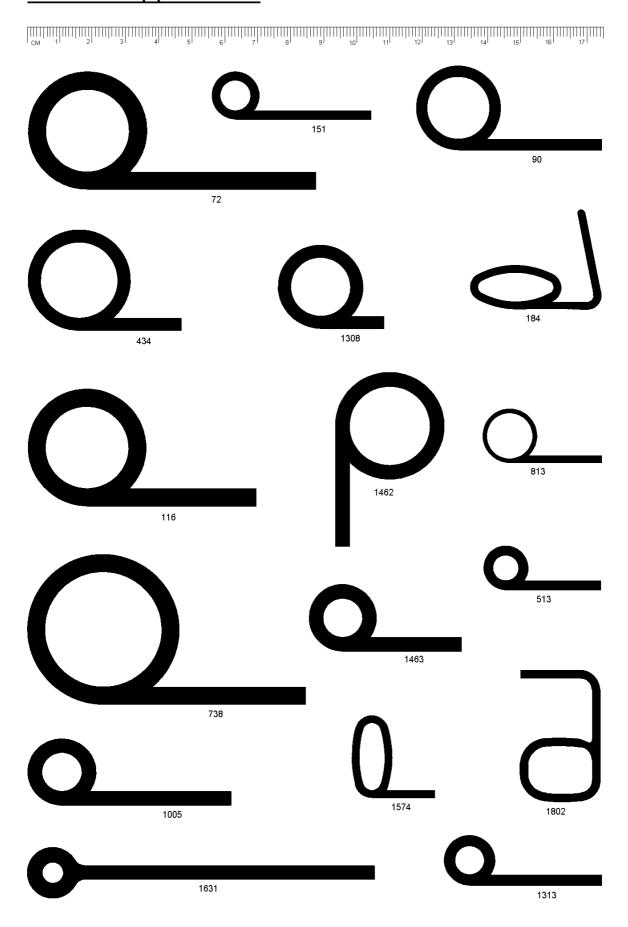
P-SECTIONS (2) - SILICONE



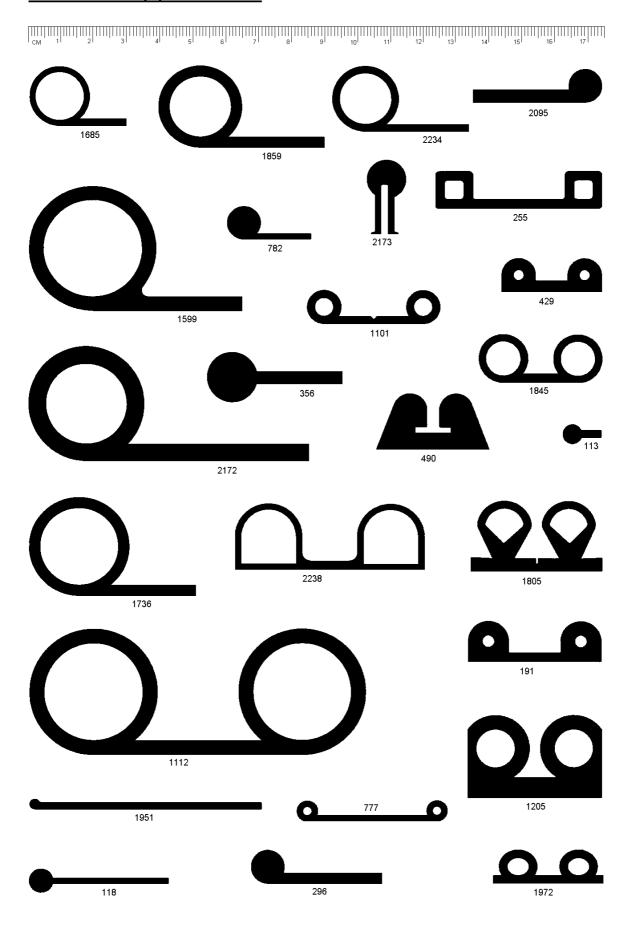
P-SECTIONS (3) - SILICONE



P-SECTIONS (4) - SILICONE



P-SECTIONS (5) - SILICONE



P-SECTIONS (6)

MATERIAL - SILICONE



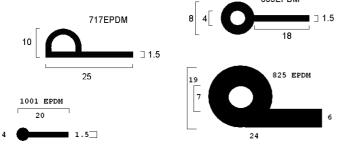
Other dies available (all sizes in mm):

O/D	I/D	Leg	Leg Thicknes
3.00	1.50	8.00	1.00
5.00	3.00	10.00	1.20
7.50	5.50	15.00	1.40
10.00	7.50	20.00	1.50
12.50	10.00	25.00	1.60
15.00	12.50	30.00	2.50
20.00	14.00	35.00	3.00
25.00	20.00	40.00	3.00

DOZENS OF OTHER COMBINATIONS!

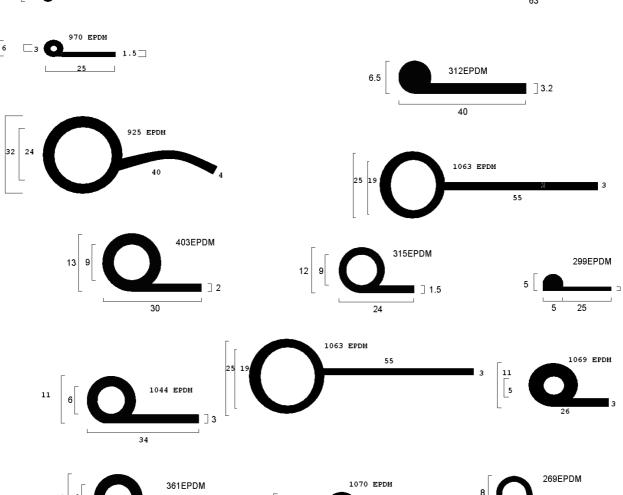
MATERIAL - EPDM

NOT TO SCALE BELOW



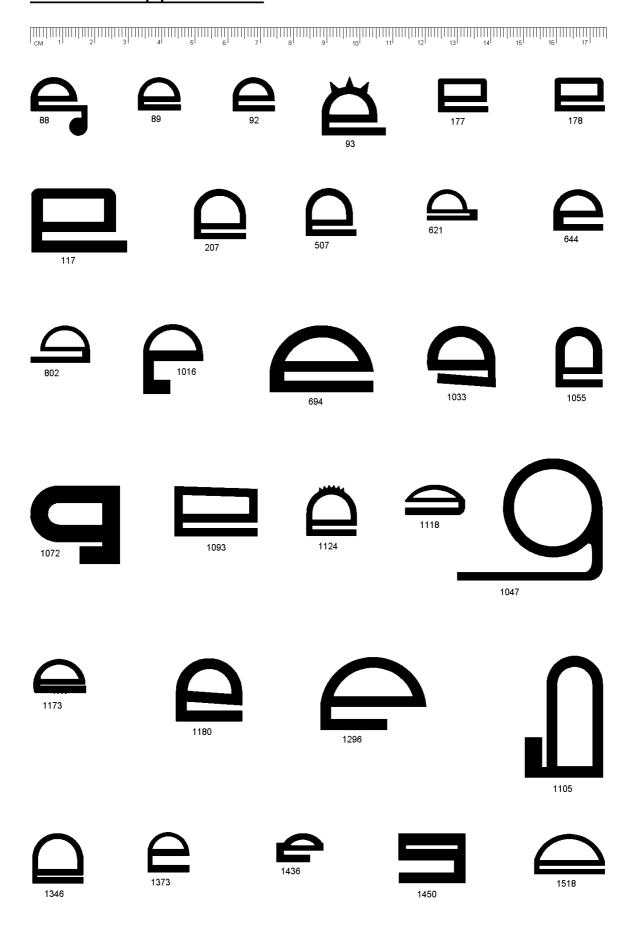


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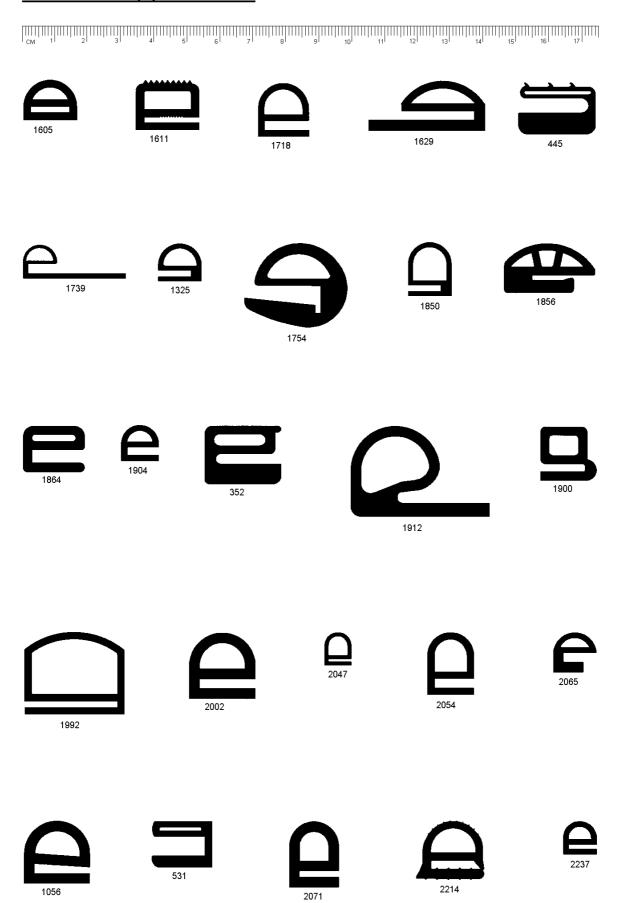


15

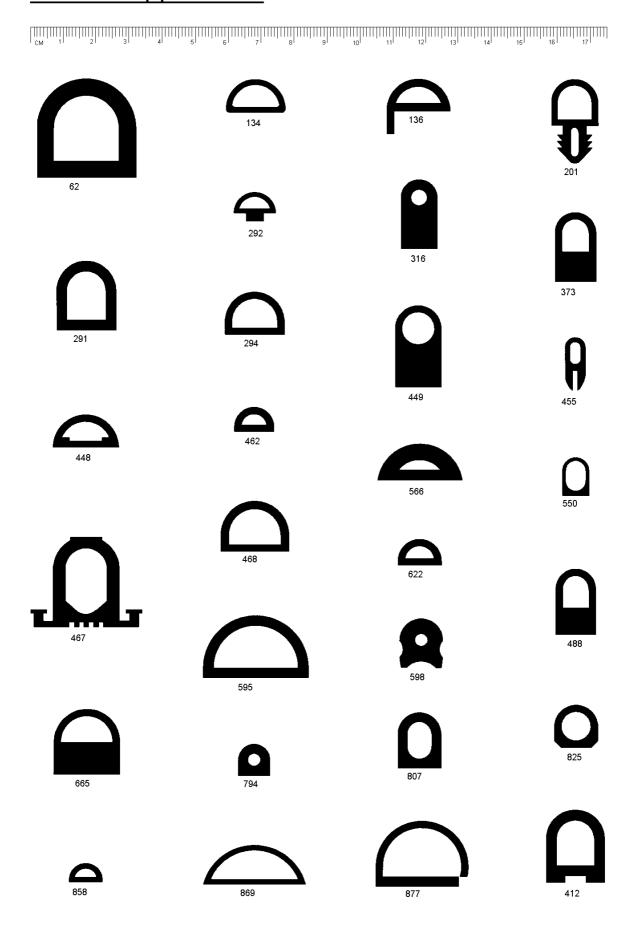
E-SECTIONS (1) - SILICONE



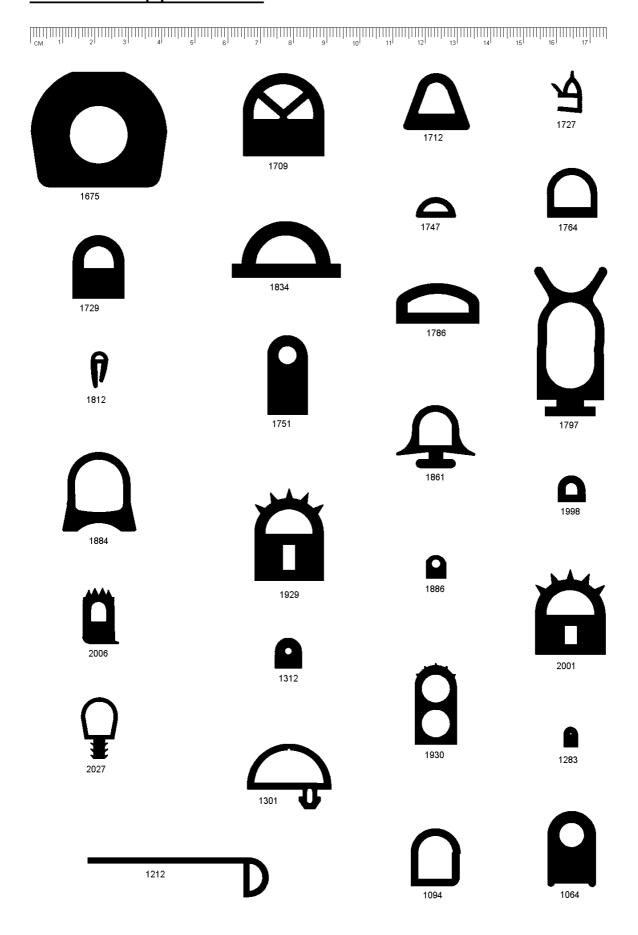
E-SECTIONS (2) - SILICONE



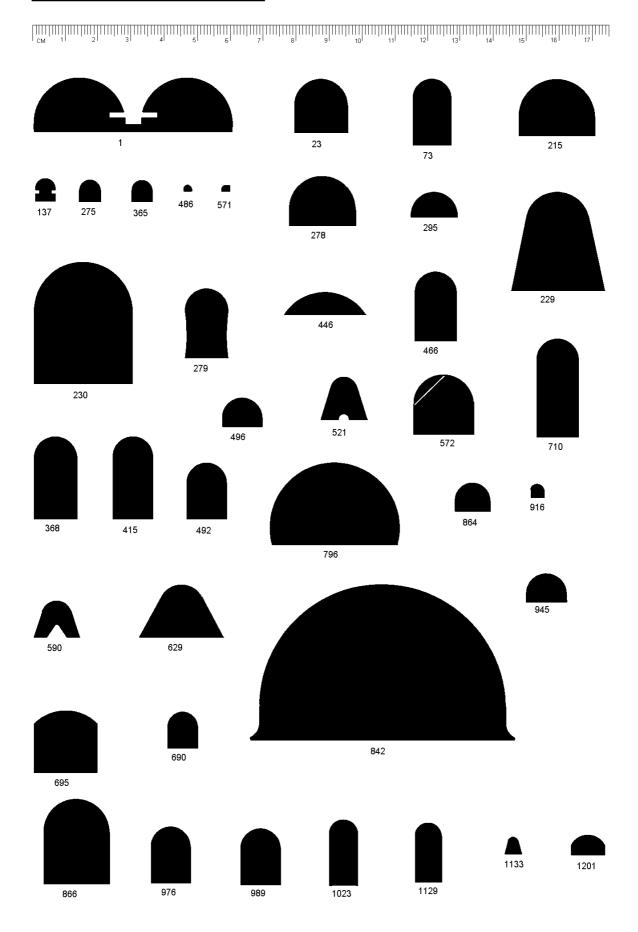
D-SECTIONS (1) - SILICONE



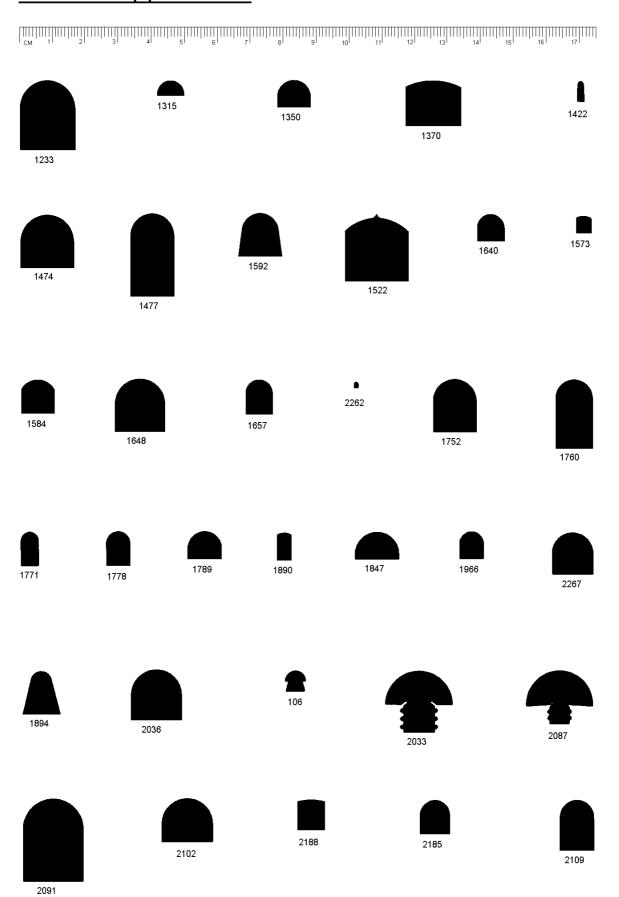
D-SECTIONS (2) - SILICONE



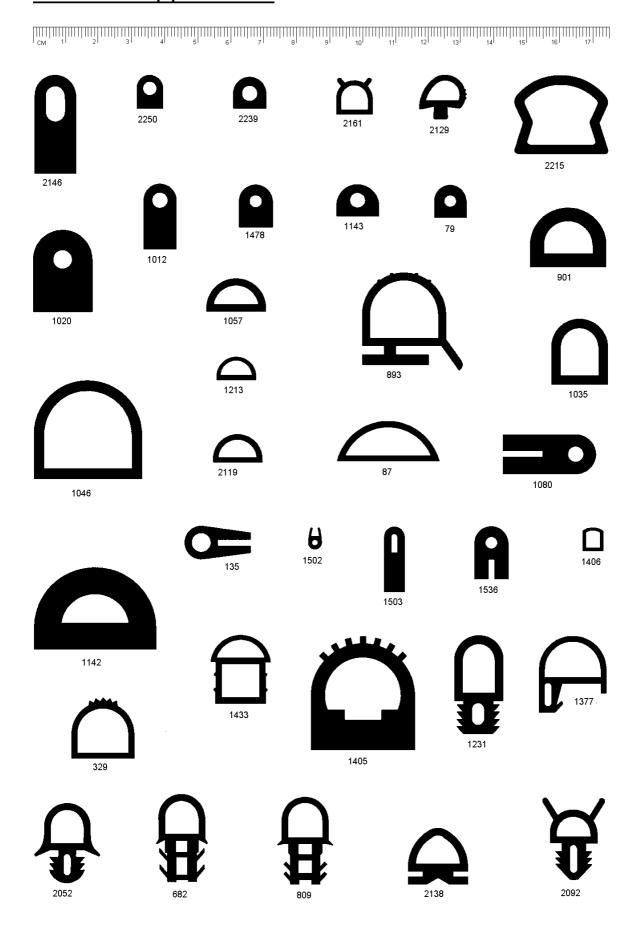
D-SECTIONS (3) - SILICONE



D-SECTIONS (4) - SILICONE



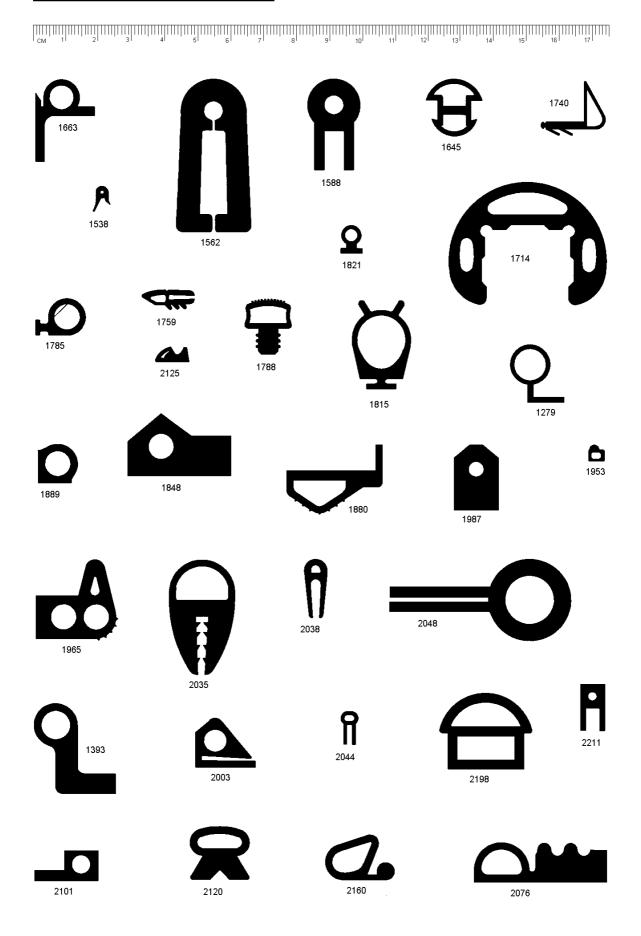
DOOR SEALS (1) - SILICONE



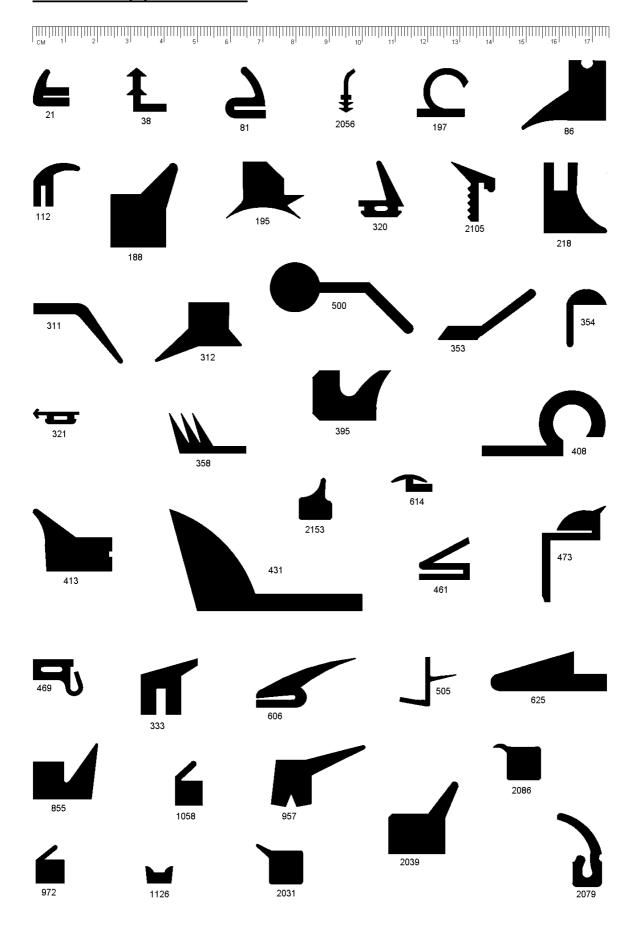
DOOR SEALS (2) - SILICONE



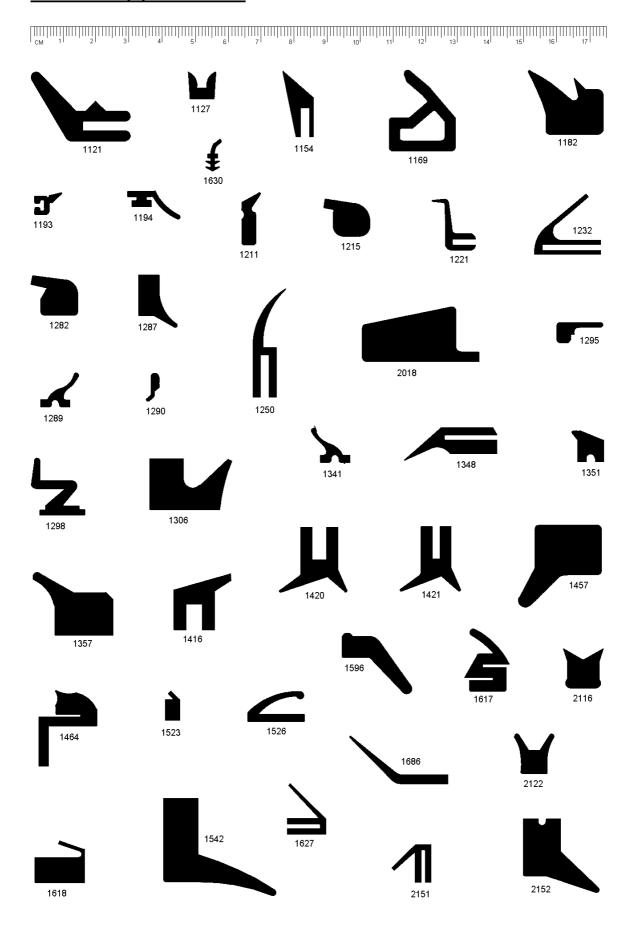
DOOR SEALS (3) - SILICONE



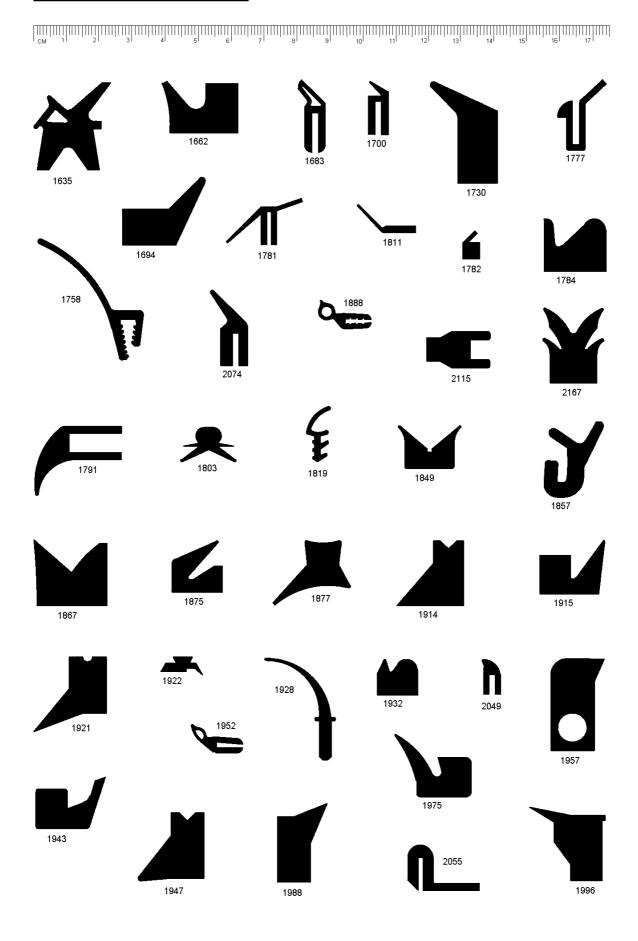
LIP SEALS (1) - SILICONE



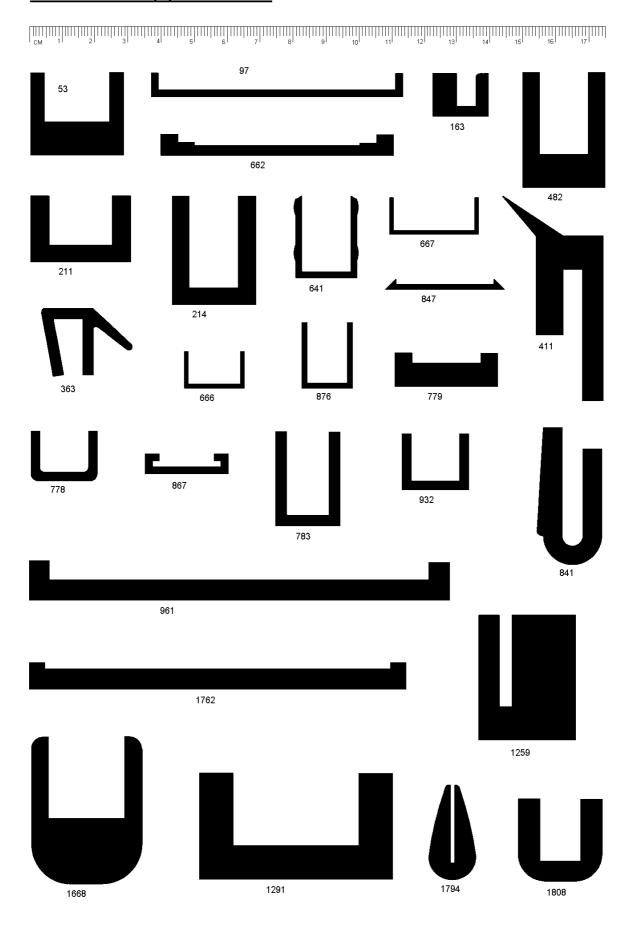
LIP SEALS (2) - SILICONE



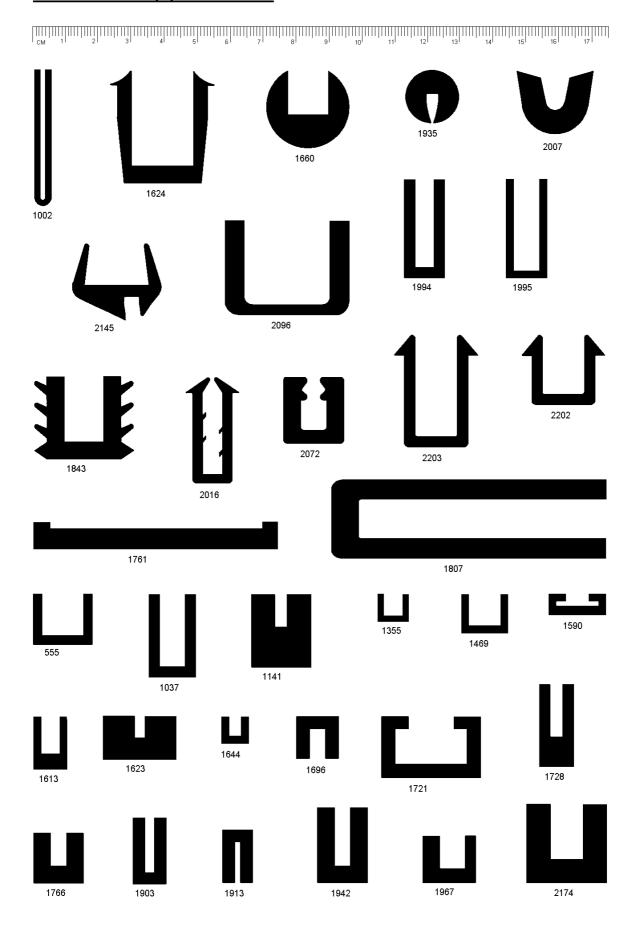
LIP SEALS (3) - SILICONE



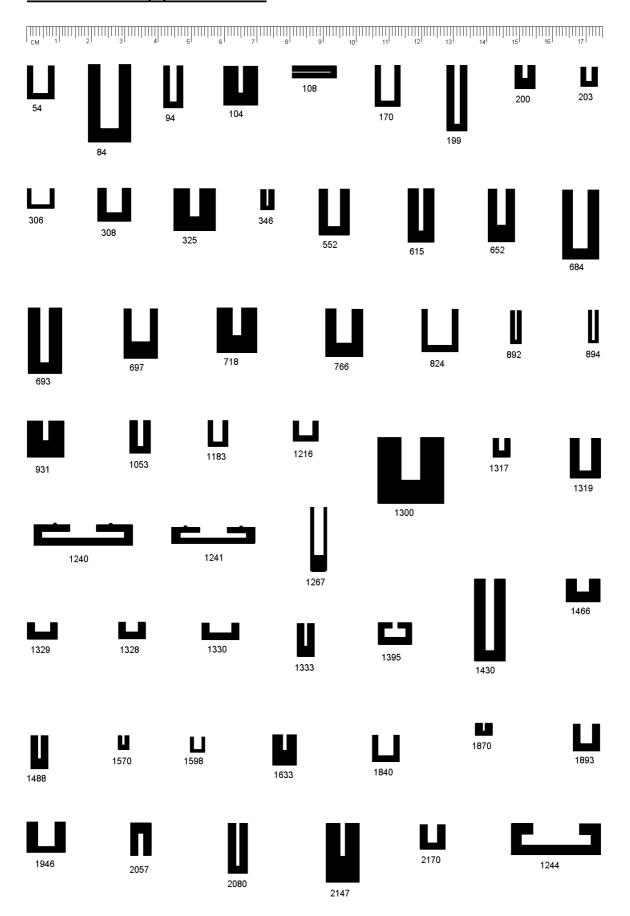
U-CHANNELS (1) - SILICONE



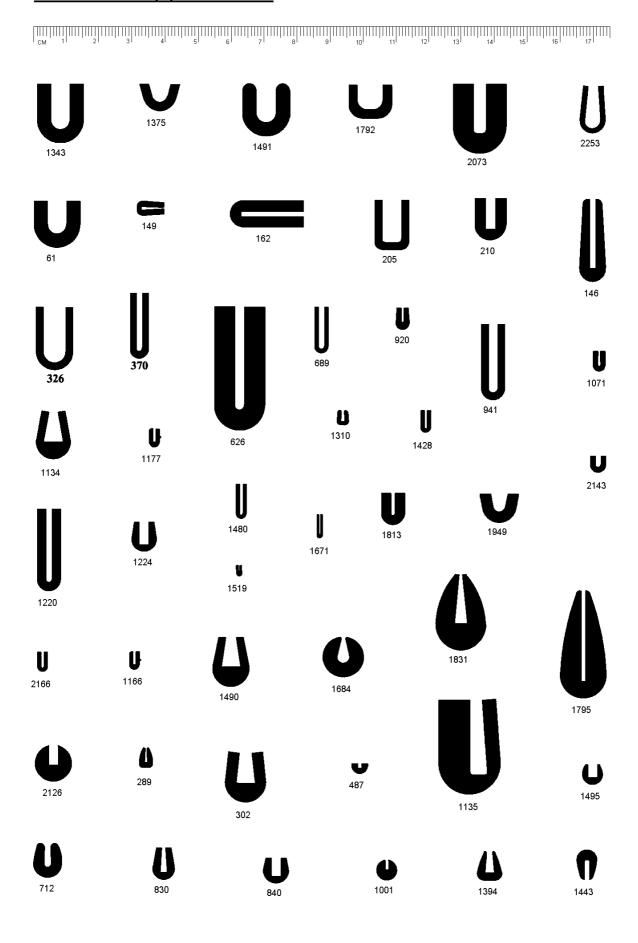
U-CHANNELS (2) - SILICONE



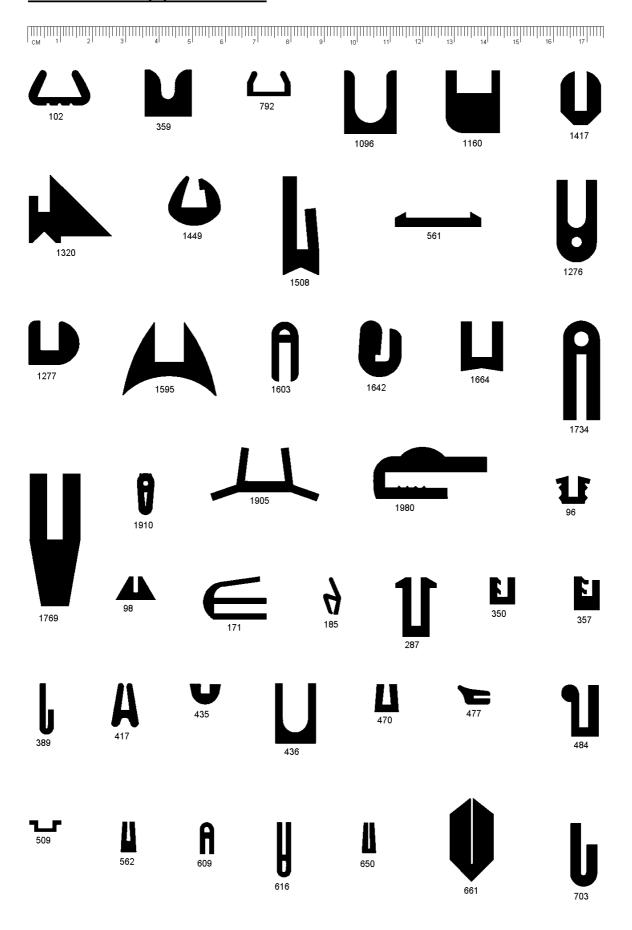
U-CHANNELS (3) - SILICONE



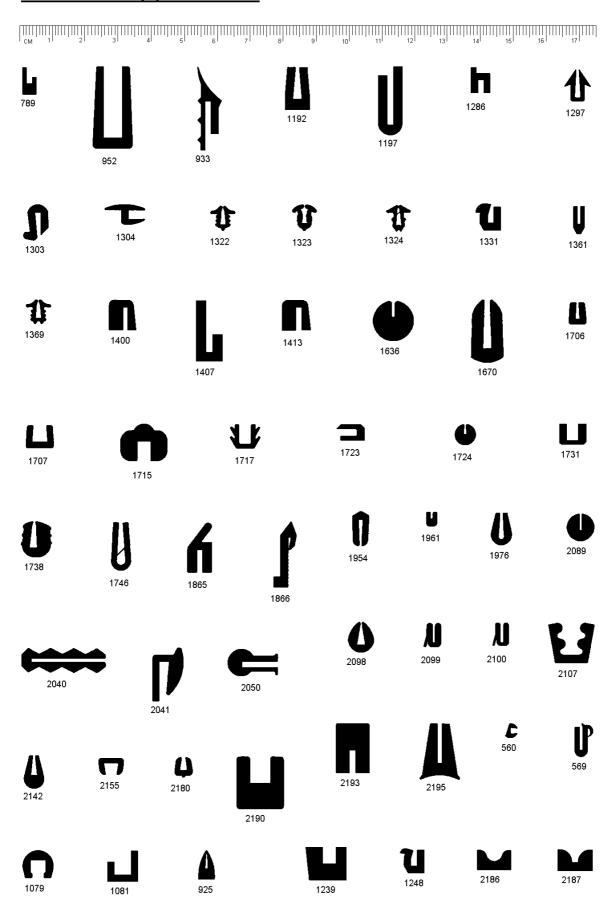
U-CHANNELS (4) - SILICONE



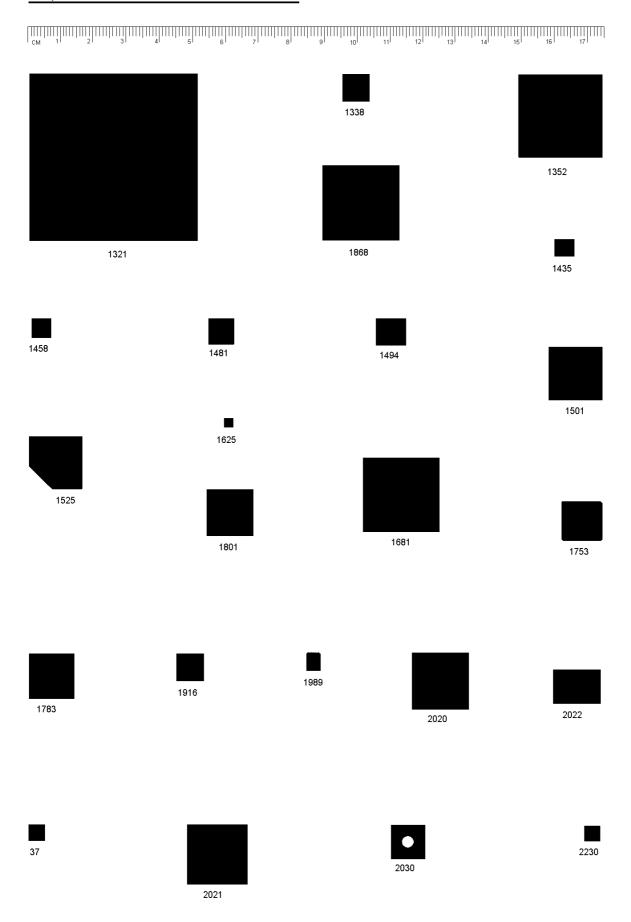
U-CHANNELS (5) - SILICONE



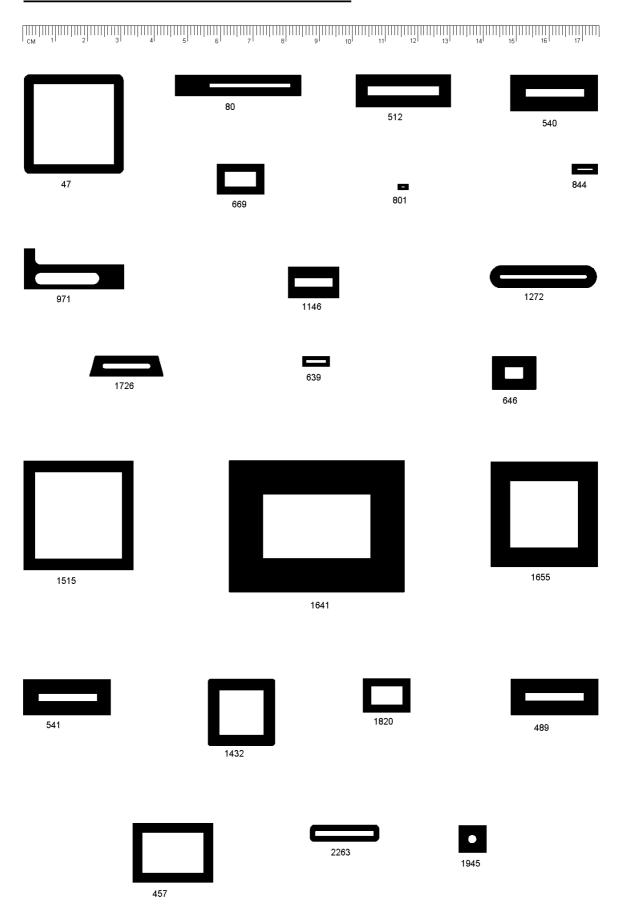
U-CHANNELS(6) - SILICONE



SQUARE SECTIONS - SILICONE

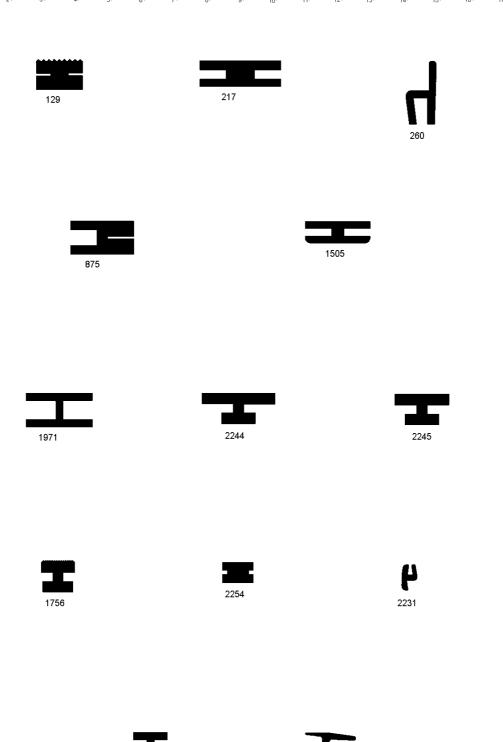


SQUARE-TUBE SECTIONS - SILICONE



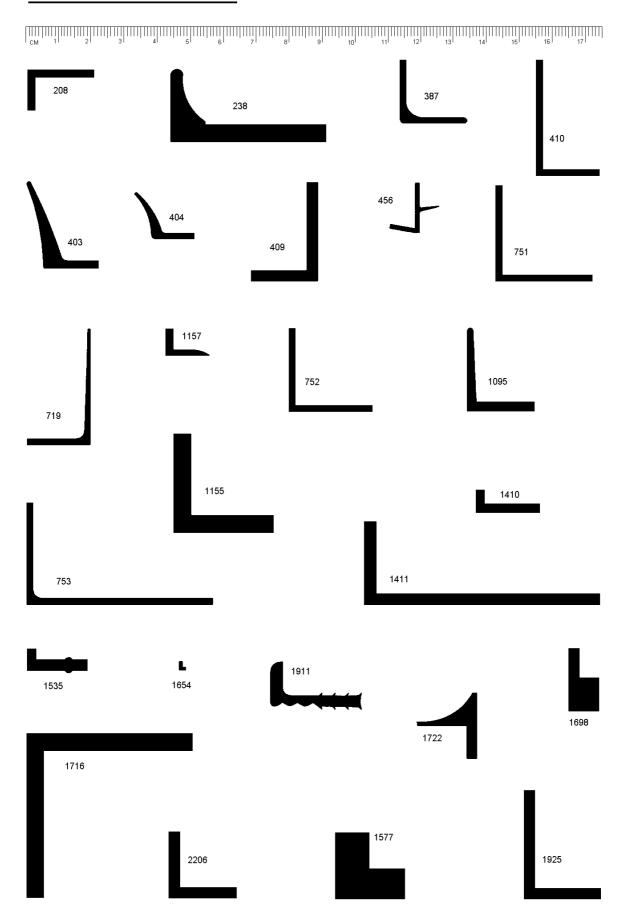
H-SECTIONS - SILICONE



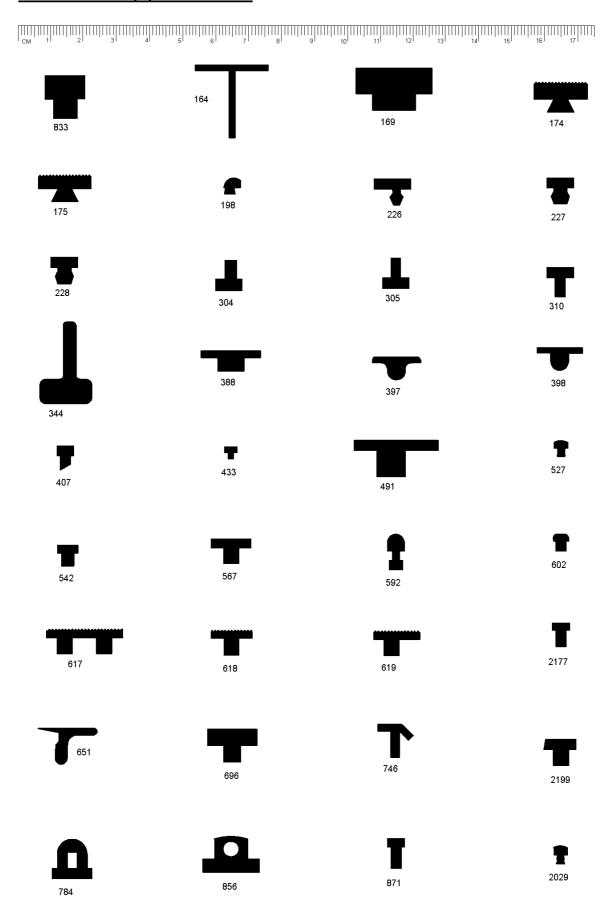


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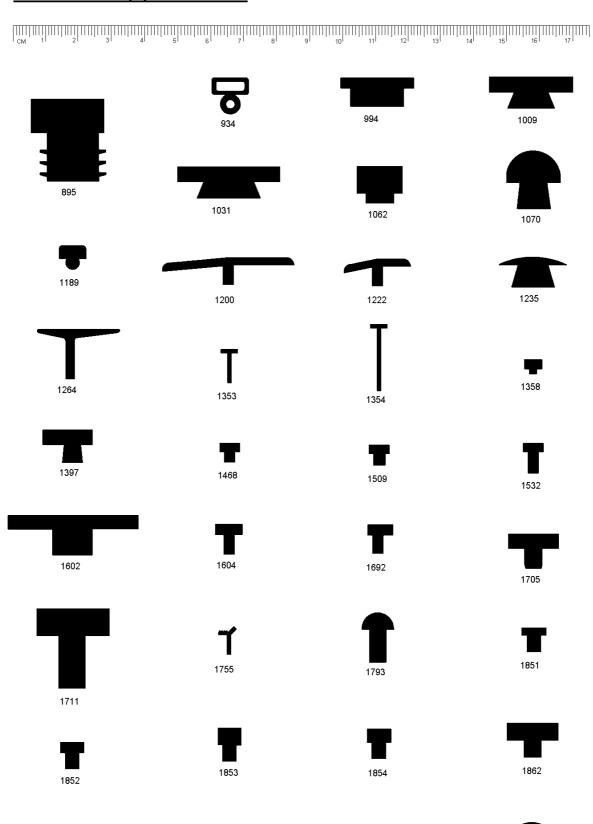
L-SECTIONS - SILICONE



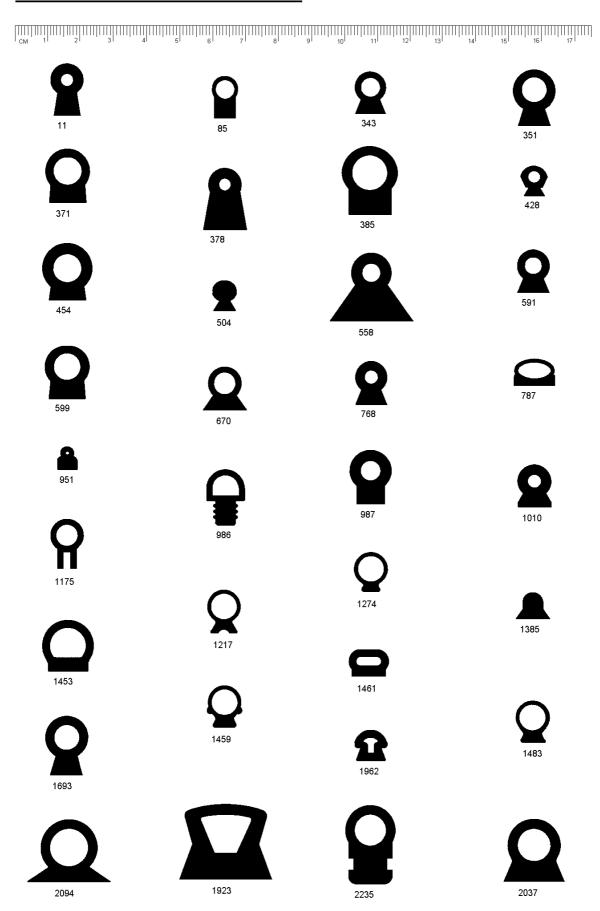
T-SECTIONS (1) - SILICONE



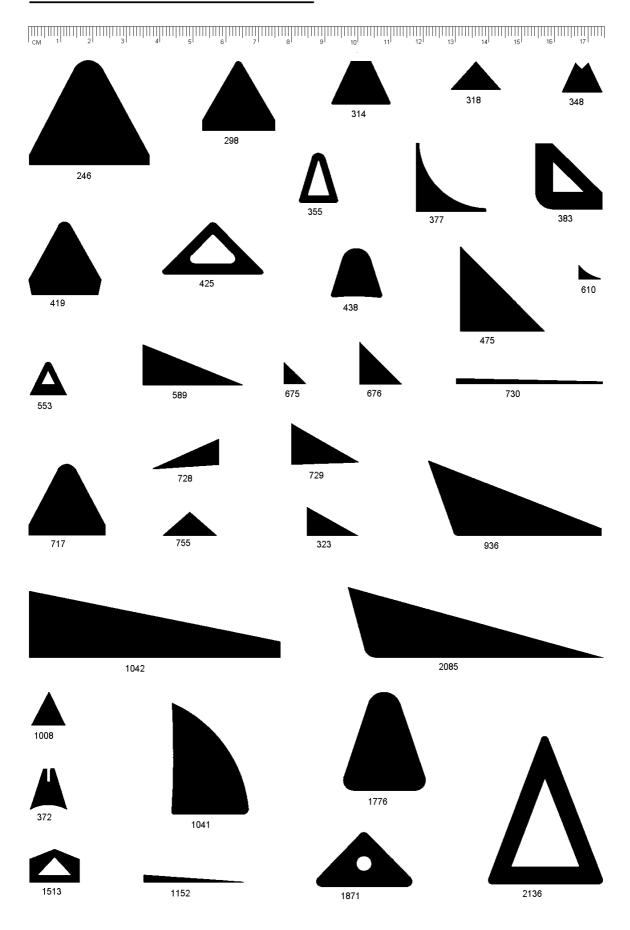
T-SECTIONS (2) - SILICONE



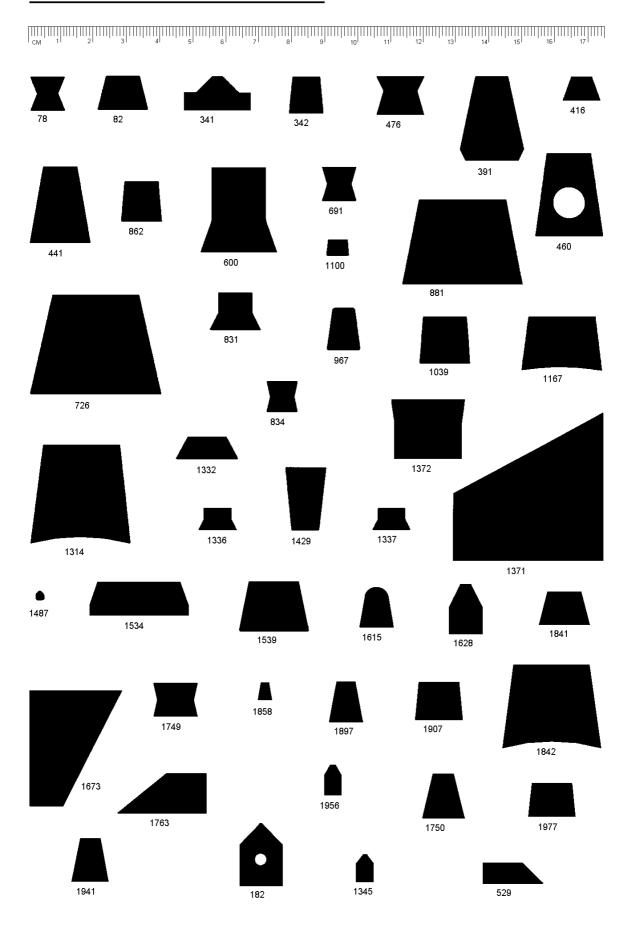
KEY-HOLE SECTIONS - SILICONE



TRIANGLE SECTIONS - SILICONE

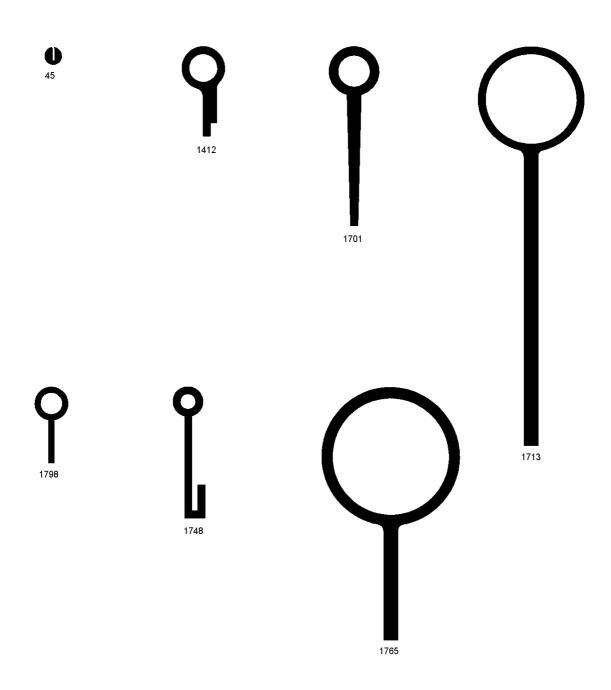


TRAPEZIUM SECTIONS - SILICONE



TADPOLE SECTIONS - SILICONE





BUBBLE SECTIONS - SILICONE

































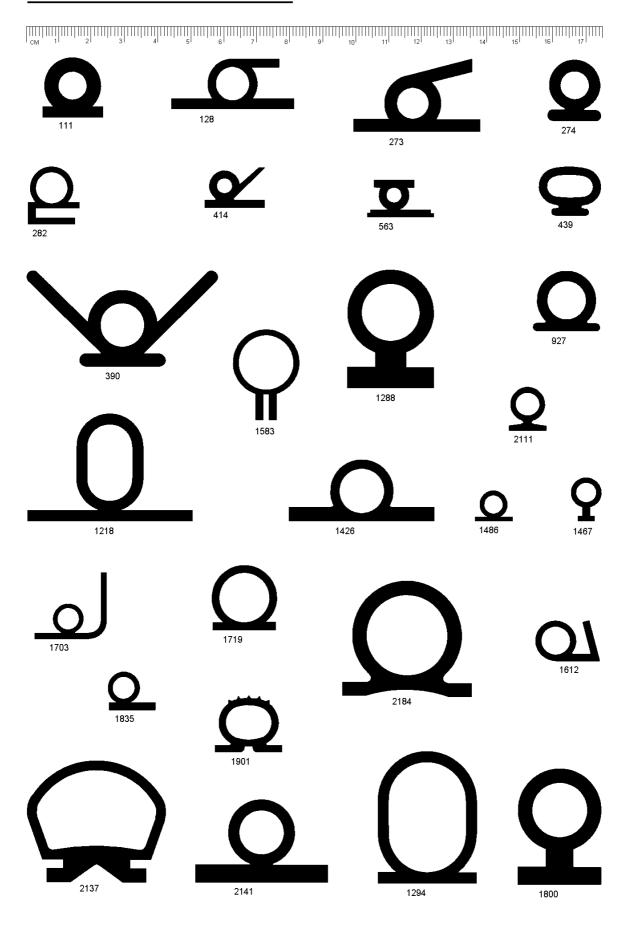




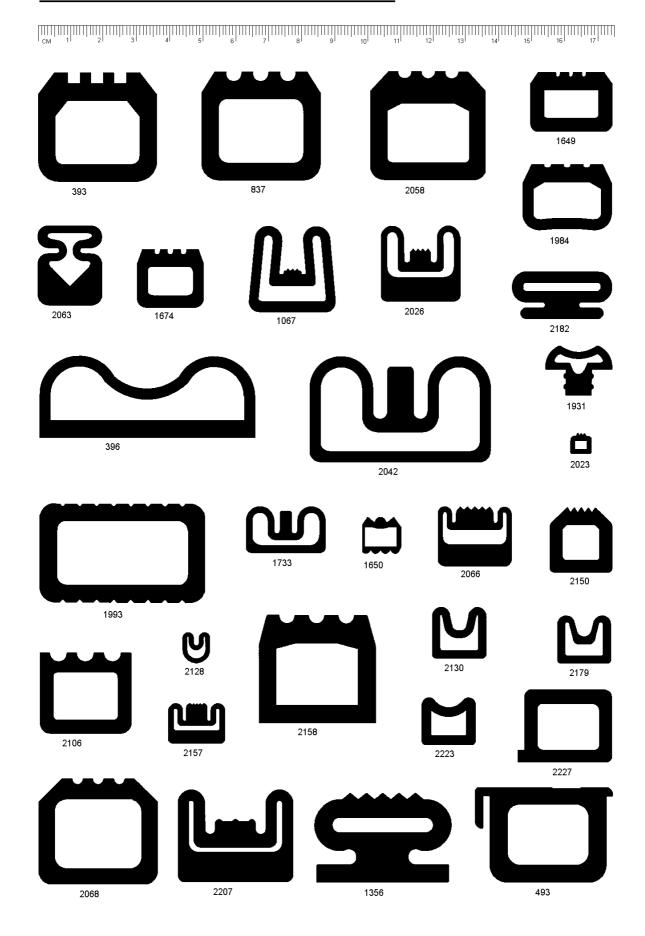




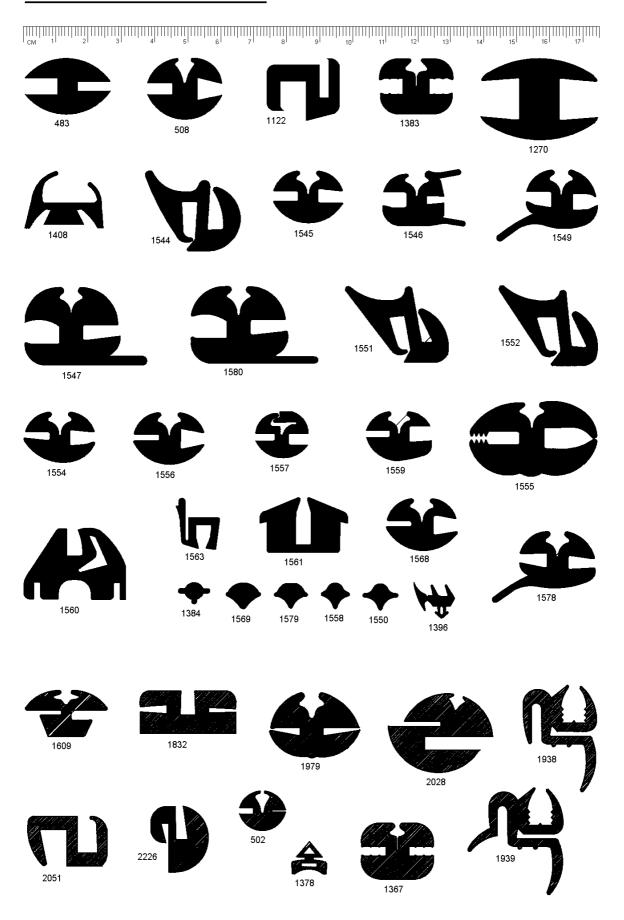
OMEGA SECTIONS - SILICONE



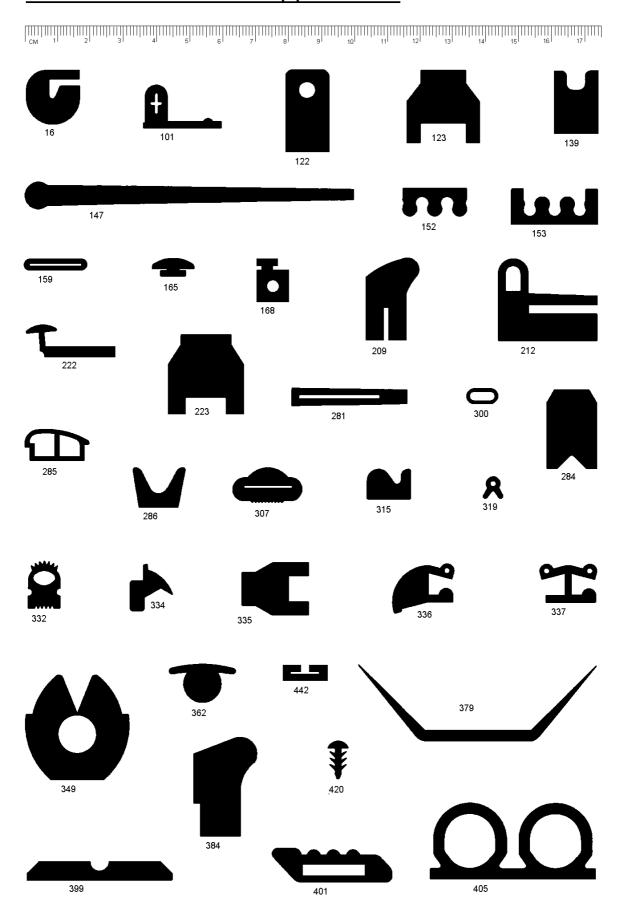
INFLATABLE-SEAL SECTIONS - SILICONE



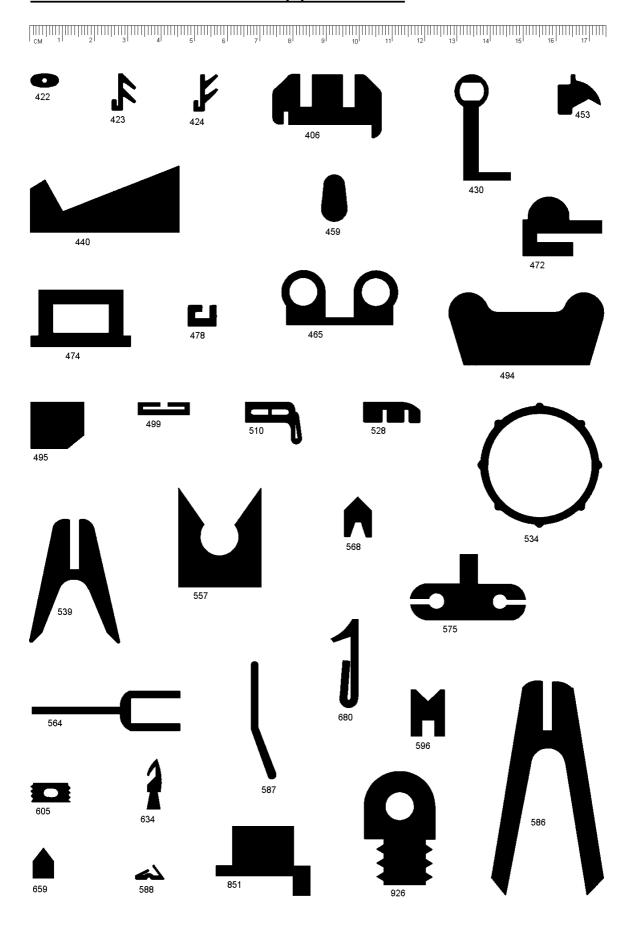
WINDOW SEALS - SILICONE



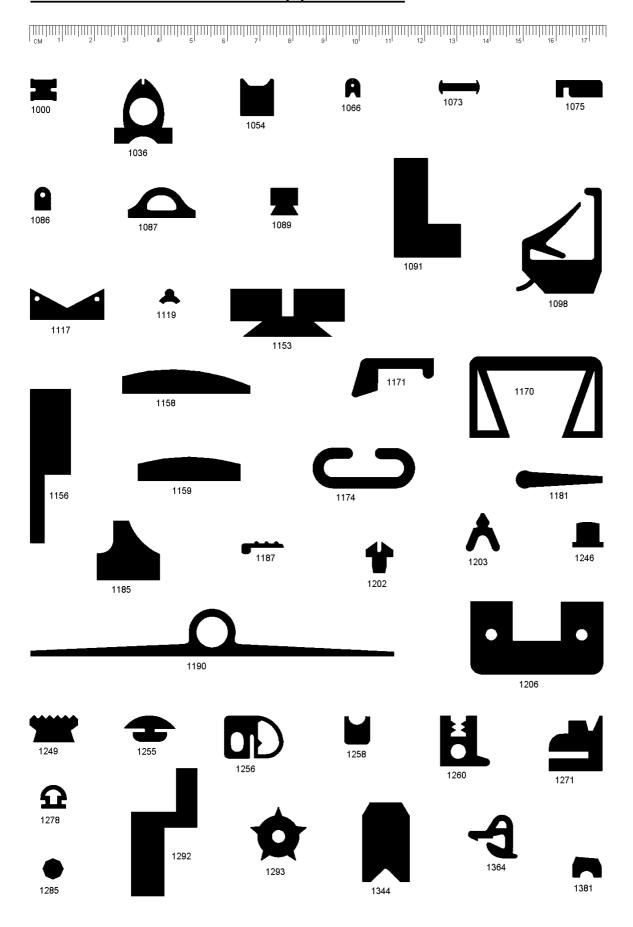
MISCELLANEOUS SECTIONS (1) - SILICONE



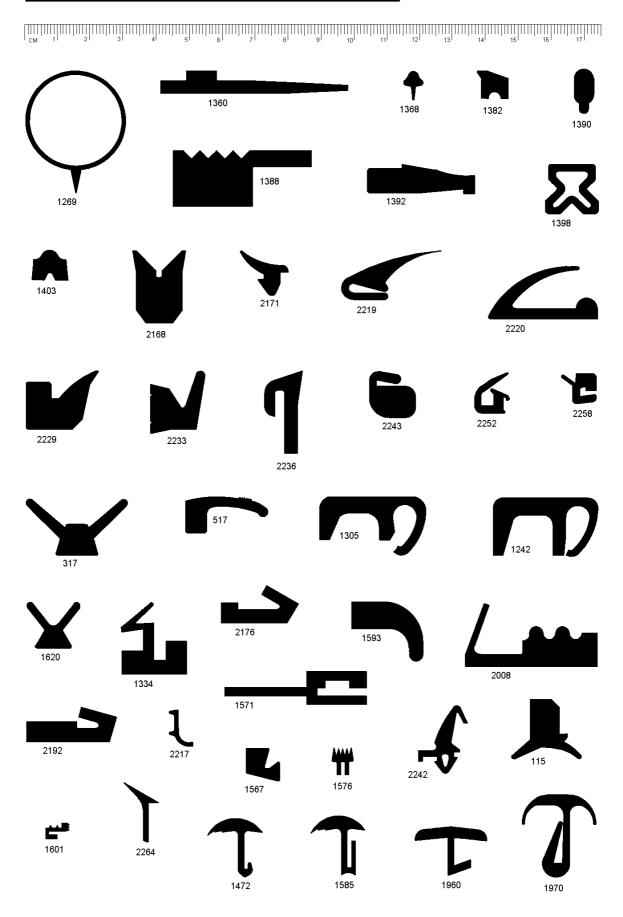
MISCELLANEOUS SECTIONS (2) - SILICONE



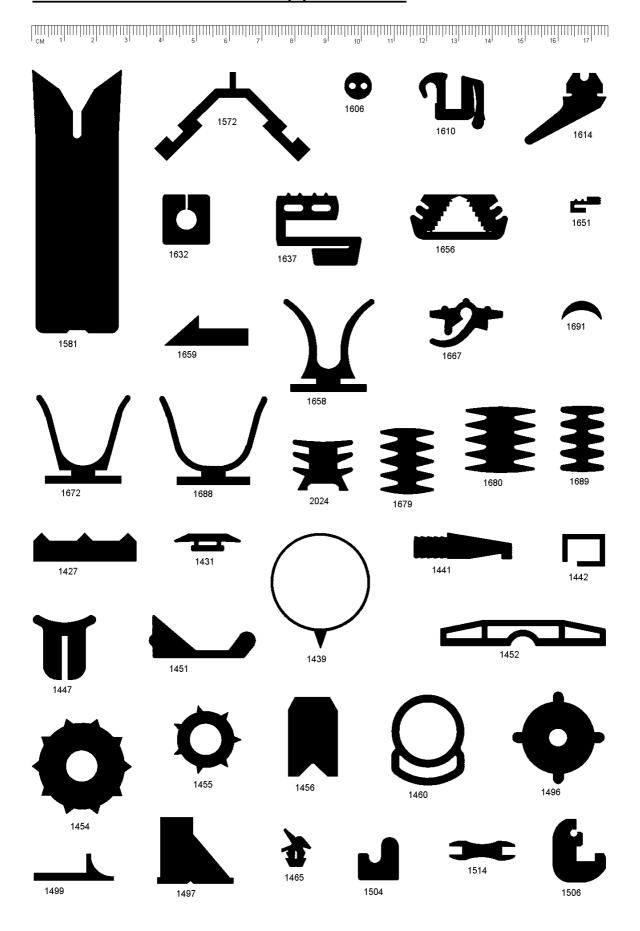
MISCELLANEOUS SECTIONS (3) - SILICONE



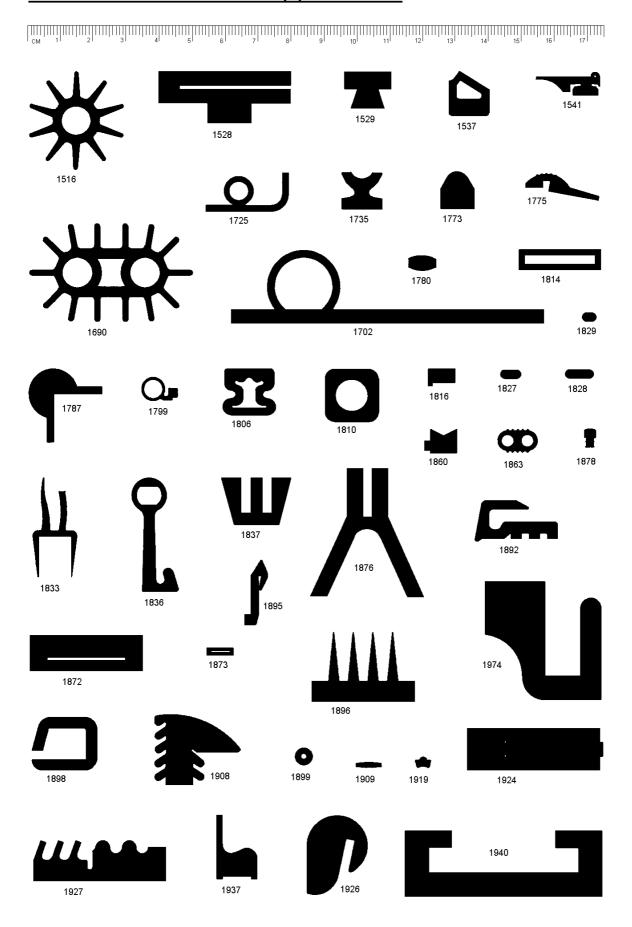
MISCELLANEOUS SECTIONS (4) - SILICONE



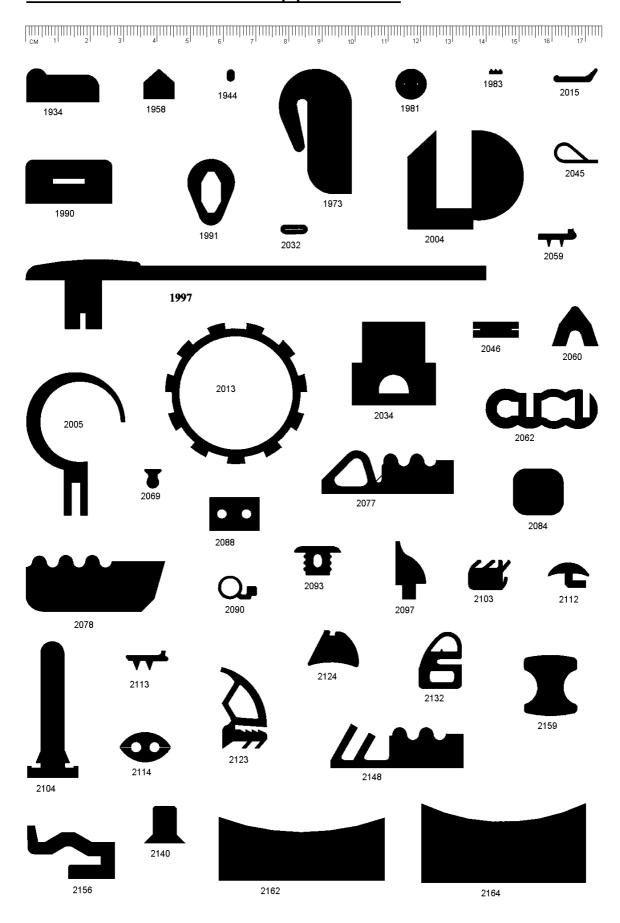
MISCELLANEOUS SECTIONS (5) - SILICONE



MISCELLANEOUS SECTIONS (6) - SILICONE



MISCELLANEOUS SECTIONS (7) - SILICONE



MISCELLANEOUS SECTIONS (8) - SILICONE



Foam Impact Protectors



These foam bumpers are designed to aid workforce safety within any workplace.

The variety of designs available means these strips can be used on any surface, frame work or edging where there is risk of injury through impact by the workforce.

Type 1 – Trapeze, 40 / 40 - Self-adhesive fitting

Type 2 – Trapeze, 40 / 40 - Self-adhesive fitting

Type 3 – Semi-circular 40 / 32 - Self-adhesive fitting

Type 4 – Trapeze, 40 / 40 / 8 - Push-on fitting

Type 5 - Semi-circular, 40 / 40 - Self-adhesive fitting

Type 6 – Semi-circular, 40 / 40 / 8 - Push-on fitting

Type 7 – Rectangle 60 / 20 - Self-adhesive fitting

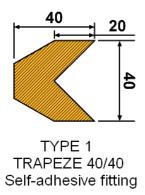
Type 8 – Trapeze 40 / 40 / 8 - Push-on fitting

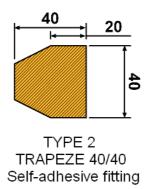
Type 9 – Right-angle, 30 / 30 - Self-adhesive fitting

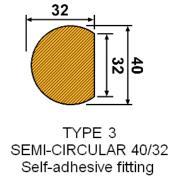
Features

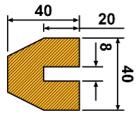
- UV-resistant, yellow / black coated, high density foam, conforming to H & S regulations 1996
 - Self-adhesive or push on fittings available
 - Warns of potential danger and helps prevent impact injury
 - Supplied in 1 metre lengths
 - Can be glued using suitable heavy duty adhesives

Foam Impact Protectors

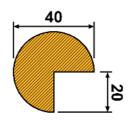




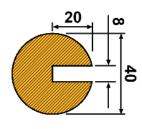




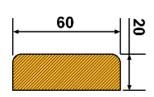
TYPE 4 TRAPEZE 40/40/8 Push-on fitting



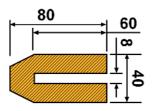
TYPE 5 SEMI-CIRCULAR 40/40 Self-adhesive fitting



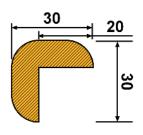
TYPE 6 SEMI-CIRCULAR 40/40/8 Push-on fitting



TYPE 7 Rectangle 60/20 Self-adhesive fitting



TYPE 8 TRAPEZE 40/80/8 Push-on fitting



TYPE 9 RIGHT-ANGLE 30/30 Self-adhesive fitting

REINFORCED EDGE TRIMS (1)













RES 5004



RES 5005



RES 5006



RES 5007



RES 5008



RES 5009



RES 5010



RES 5011

REINFORCED EDGE TRIMS (2)























REINFORCED EDGE TRIMS (3)



Rubber 5-7mm











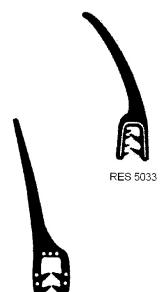
RES 5027

RES 5028 self-adhesive















COMPRESSION SEALS

RES 5035



RES 5036



RES 5037



RES 5038



RES 5039



RES 5040



RES 5041



RES 5042



RES 5043



RES 5044



RES 5045



RES 5046



RES 5047



RES 5048



RES 5049



FRIDGE SEALS





8 x 3.5mm Magnet

RES 5051



8 x 3.5mm Magnet

RES 5052



8 x 3.5mm Magnet

RES 5053



8 x 3.5mm Magnet



8 x 3.5mm Magnet

RES 5055



8 x 3.5mm Magnet

RES 5056



8 x 3.5mm Magnet

RES 5057



MG7-A forms the hinge side of a seal/gasket where the other three sides use MG-7.

RES 5058



9.8 x 3.1mm Magnet

RES 5059



8 x 3.5mm Magnet

RES 5060



9.8 x 3.1mm Magnet





8 x 3.5mm Magnet

RES 5062



9.8 x 3.1mm Magnet

RES 5063



MG-12A forms the hinge side of a seal/gasket where the other three sides use MG-12.

RES 5064



Incorporates Tri-Pole Magnet

9.8 x 3.1mm Magnet

RES 5065



9.8 x 3.1mm Magnet,

RES 5066



9.8 x 3.1mm Magnet

RES 5067



9.8 x 3.1mm Magnet

RES 5068



8 x 3.5mm Magnet

RES 5069



Magnet

RES 5070



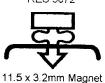
8 x 3.5mm Magnet

RES 5071



8 x 3.5mm Magnet





STANDARD WEATHERSTRIP SECTIONS (1)

RES 5073



GLASS 6mm PANEL 1.5mm OVERALL 29mm

RES 5074



GLASS 5mm PANEL 1.5mm OVERALL 24mm

RES 5075



GLASS 6mm PANEL 3mm OVERALL 24mm

RES 5076



GLASS 5mm PANEL 3mm OVERALL 20mm

RES 5077



GLASS 6mm PANEL 6mm OVERALL 28mm

RES 5078



GLASS 5mm PANEL 5mm OVERALL 22mm

RES 5079



GLASS 3mm PANEL 3mm OVERALL 21mm

RES 5080



GLASS 6mm PANEL 3mm OVERALL 29mm

RES 5081



GLASS 4.5mm PANEL 3mm OVERALL 24mm

STANDARD WEATHERSTRIP SECTIONS (2)

RES 5082



GLASS 6mm PANEL 3mm OVERALL 29mm

RES 5083



GLASS 6mm PANEL 3mm OVERALL 24mm

RES 5084



GLASS 9.5mm PANEL 5mm OVERALL 26mm

RES 5085



GLASS 6mm PANEL 6mm OVERALL 30mm

RES 5086



GLASS 6mm PANEL 3mm OVERALL 26mm

RES 5087



GLASS 8mm PANEL 3mm OVERALL 23mm

RES 5088



GLASS 6mm PANEL 12mm OVERALL 27mm

RES 5089



STANDARD

RES 5090



LARGE

RES 5091



CHROME

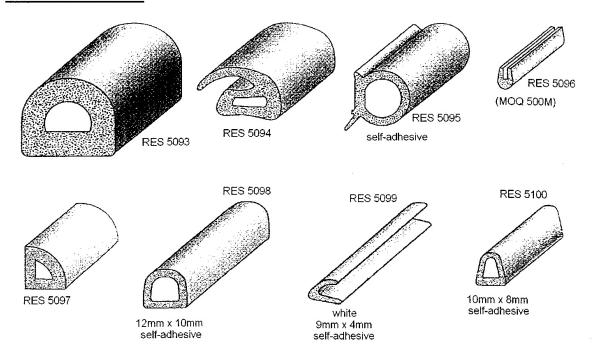
RES 5092

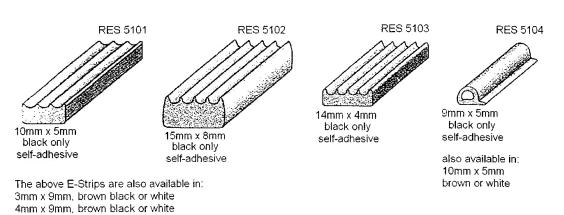


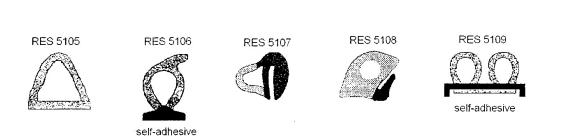
CHROME

SPONGE RUBBER

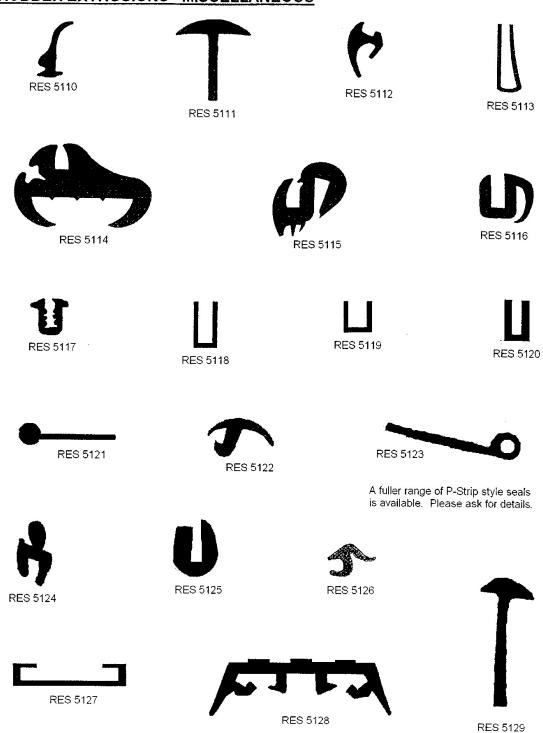
4mm x 10mm, black or white





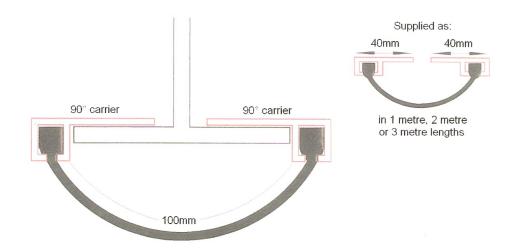


RUBBER EXTRUSIONS - MISCELLANEOUS

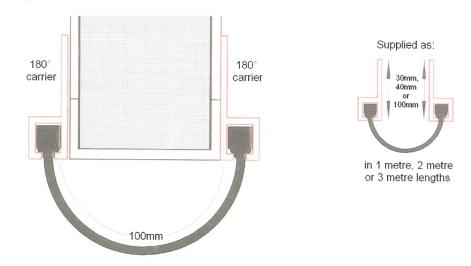


Blok-Kade D

Industrial Door Seal - Option 1 - Bottom of Roller Shutter Door



Industrial Door Seal - Option 2 - Insulated Door

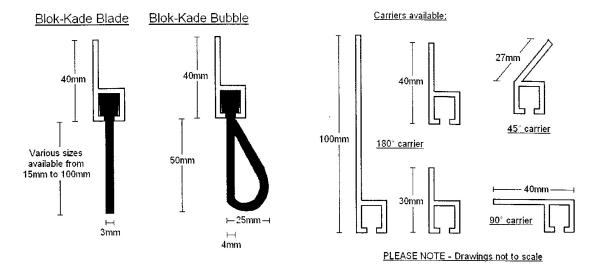


Features

- * Seal consists of two pieces of mill finish aluminium carrier in 1.0, 2.0 or 3.0 metre lengths
 - * Complete with black EPDM Blade supplied continuous for each door
- * Easily compressed
- * Stops rubbish ingress
- * Stops water penetration
- * Operating temperature range of -45 degrees C to +135 degrees C (WILL NOT FREEZE)

Blok-Kade Blade & Blok-Kade Bubble

For example:



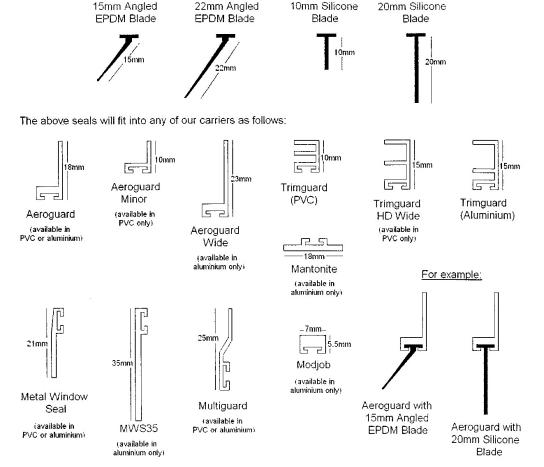
Blok-Kade Blade – features:

- * The blade can be supplied in black EPDM (Ethylene Propylene Diene Monomer)
 an elastomer which offers a wide range of application
- * It can also be supplied in white silicone (red, fluorescent orange, blue, green or yellow silicone also available subject to MOQ) which can be steam cleaned and is ideal for high temperatures to 200°C
- * Seal consists of your specified blade in aluminium carriers supplied in 1.0, 2.0, 2.5 or 3.0 metre lengths
- * Blade trim sizes: 15mm, 25mm, 30mm, 35mm, 40mm, 50mm, 60mm, 70mm, 80mm, 90mm or 100mm
 - * Ideal for draughtproofing under soffits on industrial doors
 - * Scraper/wiper for conveyors
 - * Can be cut with a hand-knife to trim further
 - * Operating temperature range of -45 degrees C to +135 degrees C (WILL NOT FREEZE)

Blok-Kade Bubble - features:

- * The bubble is supplied in black EPDM in an aluminium carrier in 1.0, 2.0, 2.5 or 3.0 metre lengths
 - * Ideal for outward opening doors butt joint each side
 - * Fit to base of sectional doors
 - * A very heavy duty, up and over garage door seal

Angled EPDM Blade and Straight Silicone Blade



Features

- Seal consists of your specified carrier and 10mm or 20mm Straight Silicone Blade or 15mm or 22mm black EPDM Blade as required
- * Aluminium carriers can be pop-riveted into place, supplied pre-drilled for acceptance of screws or can be supplied with double-sided self-adhesive tape
- * PVC carriers can be pinned into place or can be supplied with double-sided self-adhesive tape
 - * Permanent flexible seal remains soft
 - * EPDM Blade has an operating temperature range of -30 degrees C to + 80 degrees C
 - * Silicone Blade has an operating temperature range of -50 degrees C to +220 degrees C
 - * Soft scraper/wiper for conveyors
- * Ideal for draughtproofing garage doors
- * Can be used to seal shower doors
- * Cable management (use in pairs)

THIS IS A SELECTION OF SOME OF OUR PARTS IN TPR, EPDM AND SILICONE, TRADE ENQUIRES FROM EXISTING DIES OR NEW PROPOSALS WELCOME

SEE: www.rubber-extrusions-seals.co.uk

PLEASE DO NOT SCALE, THIS IS A QUICK SKETCH OR AN ENHANCED COPY TO SHOW DETAIL THE STATED MEASUREMENTS ARE CORRECT

GEORGE CULLEY

TEL: 0161 622 0020 FAX: 0161 622 0010

over 1500 profiles



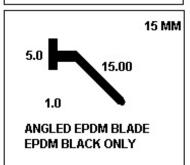
ADHESIVE BACKED BROWN OR WHITE 5.50 DIA 6.5 MM FOOT TPE

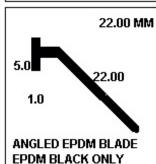


1.0 CURRENTLY BLACK RESL SILICONE DIE 1353 TRANSLUCENT COULD BE MADE TO ORDER

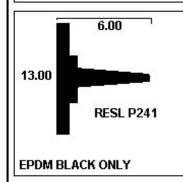


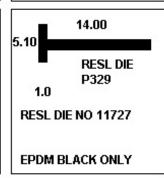
CURRENTLY BLACK
RESL SILICONE DIE 1354
TRANSLUCENT COULD
BE MADE TO ORDER



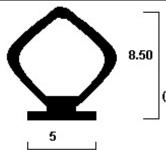










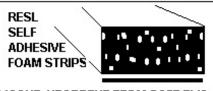


RESL THERMOBUBBLE
WHITE
BLACK
TRANSLUCENT
OTHER COLOURS TO ORDER
(MANY OF OUR CARRIERS FIT)
SILICONE
FROM -50 DEGREES
TO 200 DEGREES C





RESL INDUSTRIAL PREMIER BRUSH STRIP RANGE A FULL RANGE FROM 5 MM TO 300 MM



RTV SILICONE

SILICONE, NEOPRENE, EPDM, SOFT PVC

MATERIAL DATA SHEET/PROPERTIES – EXTRUDED EPDM

NOMINAL 70 IRHD VULCANISED EPDM

NOMINAL 80 IRHD VULCANISED EPDM

BS 4255: PART 1: 1986 GRADE C

BS 4255: PART 1: 1986 GRADE D

DESCRIPTION	TYPICAL VALUE	SPECIFICATION REQUIREMENT	DESCRIPTION	TYPICAL VALUE	SPECIFICATION REQUIREMENT
Hardness IRHD	72	76 – 85	Hardness IRHD	81	76 – 85
Tensile Strength Mpa	11.2	10.5 min	Tensile Strength Mpa	11.4	10.5 min
Elongation at break %	300	150 min	Elongation at break %	210	150 min
Compression Set %			Compression Set %		
22 hrs @ 70°C	19	25	22 hrs @ 70°C	10	25
Heat Ageing 70 hrs @ 100°C			Heat Ageing 70 hrs @ 100°C		
Change in Tensile Strength %	-5	-5 max	Change in Tensile Strength %	+12	-15 max
Change in Elongation %	-18	-40 max	Change in Elongation %	+19	-40 max
Change in Hardness IRHD			Change in Hardness IRHD	+3	+10
Resistance to Ozone 100pphm	No cracks	No cracks at x2 magnification	Resistance to Ozone 100pphm	No cracks	No cracks at x2 magnification
Low Temperature 7 days @ -10°C	+6	+12 max	Low Temperature 7 days @ -10°C	+6	+12 max

TECHNICAL DATA SHEET - FLAME RETARDANT CELLULAR SILICONE ELASTOMER

GRADES: SE510FR UL94VO & SE515FR UL94VO - TEMPERATURE RANGE: -60°C TO 200°C

AVAILABILITY

The FR range of cellular silicone elastomers are available as sheeting, profile extrusions, jointed rings, self-adhesive backed, strip and punchings. They are particularly suited to use in high temperature seals and gaskets, where a soft, easily deformed rubber is required and where public safety is critical. Sheeting is available in standard rolls of width 1M and length 10M. Other widths or lengths can be produced upon request. The scope of the UL approval for these products limits the minimum dimensions and colours that can be manufactured.

SPECIFICATIONS

These products have been specifically formulated for and hold approval to the flammability requirements of the UL94VO specification. The UL file number for these materials is E23S077. As VO is the most demanding of the UL vertical burn tests, these grades may also be used in applications where V1 or V2 rating is required.

MECHANICAL PROPERTIES

Property	SE510FR	UL94VO	SE515FR	UL94VO	Test Method
Density (kg m3)	160 +/-30 360 +/-60	169 310	220 +/-30 400 +/-60	218 404	BSENISO 845 * 25mm sample * 3mm sample
Compression Stress (kPa) 40% strain	30 +/-20	140	70 +/-20	68	BSENISO 3386 Part 1
Compression Set (%) 24 hours at 70°C	20 max	12	15 max	10	BSENISO 1856 Type A

^{*} The density of sponge varies with the thickness of the product. As the thickness decreases the density increases. For more information relating to the apparent density of any specific thickness please do not hesitate to contact us.

MECHANICAL PROPERTIES FOR SILICONE SPONGES - EXTRUDED AND SHEET

		SE5	10	SE5	15	SE524		SE533		Test
Property	Units	Spec'n Limits	Typical Value	Spec'n Limits	Typical Value	Spec'n Limits	Typical Value	Spec'n Limits	Typical Value	Method
*Density	Kg.m ⁻³	200 +/-40	195	250 +/-40	256	400 +/-40	400	530 +/-40	400	BSENISO 845
Hardness	Shore OO **Shore A	35 +/-5 <5	35	45 +/-5 5 +/-2	45	65 +/-5 17 +/-3	64	80 +/-5 30 +/-10	82	ASTM D2240
***Compression Stress 40% strain	kPa	50 +/-10	50	90 +/-40	90	160 +/-40	160	580 +/-150	584	BSENISO 3386 Part 1, 2
Tensile Strength	N.mm ⁻²	0.5 min	0.9	0.75 min	1.2	1.0 min	1.6	1.5 min	3.2	BSENISO 1798
Elongation to Failure	%	75 min	120	100 min	200	75 min	150	100 min	190	BSENISO 1798
Compression Set 22 hours @ 70°C	%	20 max	16	15 max	10	15 max	10	15 max	10	BSENISO 1856 Type A

^{*} Density measured on 25mm diameter cord sample. The density of samples of different sizes will be different from that stated here.

For further information about physical properties for other sample sizes, please contact our technical department.

^{**} Hardness measured on 10mm thick samples. At less than 10mm the measured hardness will increase with density.

^{***} Compression Stress measured on 25mm thick sample. The compressive stress of the material increases with the density as the sample thickness is reduced.

It is not possible to perform a Shore A hardness test on sponge material. These values are provided as a guideline for comparison to solid materials and as such are not designed for use in specifications.

TECHNICAL DATA SHEET - CELLULAR SILICONE ELASTOMER

GRADES: SE510 SE515 SE524 & SE533 – TEMPERATURE RANGE: -60°C TO 200°C

AVAILABILITY

The SE range of cellular silicone elastomers is available as profile extrusions, jointed rings, sheeting, which can be self-adhesive backed, strip and punchings. They are particularly suited to use in high temperature seals and gaskets, where soft, easily deformed rubber is required. There is a full range of standard colours available and we have the capability to colour match to customer requirements. Sheeting is available in standard rolls of width 1M: other widths can be produced upon request.

SPECIFICATIONS

These products meet the flammability requirements of FAR 25.853 (a) (1) (iv) and (a) (1) (v) horizontal flammability tests. The sponge is predominately-closed cell with low water absorption.

GENERAL CHARACTERISTICS FOR SILICONE RUBBER

Brittle point	-80°C (-112°F)	ASTM D746
Limiting Oxygen Index	24.0%	BS 2872 Part 1
Thermal Conductivity	0.24 W.m- ¹ , K- ¹	VDE 0304
Radiation Resistance	>10⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 Kv.mm- ¹	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor @ 50 c/s	3x10- ⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ .cm	VDE 0303

ENVIRONMENTAL RESISTANCE

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionising radiation and weathering in general. Silicone rubber products produce very low levels of toxic fume when burnt. During testing to ATS 1000.001 none of the following gases were produced in detectable amounts: HCN, CO, NO, NO₂,SO₂,-H₂5, HF, HCI.

MECHANICAL PROPERTIES FOR SOLID SILICONE - MOULDED AND EXTRUDED

		S	E40	SE	=50	SI	E60	S	E70	SE80		Test
Property	Units	Spec'n Limits	Typical Value	Method								
Hardness	Sh A	40 +/-5	40	50 +/-5	50	60 +/-5	60	70 +/-5	70	80 +/-5	80	ASTM D2240 DIN 53505
Tensile Strength	Мра	40 min	7.0	5.5 min	8.0	5.5 min	7.9	5.5 min	7.6	5.5 min	7.8	BS 903 pt A2 DIN 53504 die S1
	Psi	580 min	1015	798 min	1160	798 min	1146	798 min	1102	798 min	1131	ASTM D412 die C
Elongation to Failure	%	300 min	450	250 min	370	250 min	340	200 min	320	200 min	300	BS 903 Pt A2 DIN 53504 die S1 ASTM D412 die C
Tear Strength	N/mm	8.5 min	10.2	10.0 min	12.8	12.5 min	14.2	21.5 min	14.4	10.0 min	13.2	BS 903 pt A3 die C
	Lb/in	48.5 min	73.1	57.1 min	81.1	71.4 min	903	71.4 min	91.4	57.1 min	82.2	ASTM D624 die C
Compression set												SBS 903 pt A6 Type B
24hrs @ 150°C	%	35 max	25	30 max	15	30 max	13	30 max	9	30 max	19	DIN 53517 type II
22hrs @ 300°F	%	25 max	22	30 max	16	30 max		30 max	10	30 max	19	ASTM D395 method B type 2

Other information regarding the physical properties of these materials is available on request.

TECHNICAL DATA SHEET - GENERAL PURPOSE SILICONE RUBBER

GRADES: SE40 SE50 SE60 SE70 & SE80 - TEMPERATURE RANGE: -60°C (-76°F) TO 230°C (446°F)

AVAILABILITY

The range of Silicone Rubbers is available in the form of mouldings and profile extrusions, which can be jointed or self-adhesive backed. They are particularly suited to use in oven door seals and gaskets, and are suitable for use in the food and beverage industry. There is a full range of standard colours available, including transparent and we have the capability to colour match to customer requirements.

SPECIFICATIONS

_

Translucent, white, blue and red iron oxide variants contain only ingredients that are listed by the American Food and Drugs Administration (FDA) under the 21 CFR number 177-2600. These products meet the flammability requirements of FAR 25.853 (a) (1) (iv) and (a) (1) (v) horizontal flammability tests.

GENERAL CHARACTERISTICS FOR SILICONE RUBBER

Brittle point	-80°C (-112°F)	ASTM D746
Limiting Oxygen Index	24.0%	BS 2872 Part 1
Thermal Conductivity	0.24 W.m- ¹ , K- ¹	VDE 0304
Radiation Resistance	>10⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 kV.mm- ¹	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor @ 50 c/s	3x10- ⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ .cm	VDE 0303

ENVIRONMENTAL RESISTANCE

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionising radiation and weathering in general.

IF YOU HAVE A DRAWING, SKETCH OR A SPECIFICATION WHY NOT ASK US FOR A QUOTATION.

IF WE DO NOT HAVE AN EXACT DIE TO PRODUCE THE EXTRUSION YOU NEED WE CAN MANUFACTURE THE TOOLING IN HOUSE AND PRODUCE A SMALL SAMPLE FOR APPROVAL PRIOR TO RECEIVING A BULK ORDER.

WE CAN EXTRUDE ANY SILICONE SHAPE. / MOST DIES ARE AVAILABLE WITHIN 2-3 WEEKS.

PLEASE DO NOT FORGET TO ADVISE US OF YOUR NAME, COMPANY NAME, ADDRESS, TELEPHONE NUMBER AND FAX NUMBER.

IT WOULD BE HELPFUL TO US IF YOU COULD ADVISE SIZES, MATERIAL, FABRICATION REQUIRED, COLOUR, QUANITY REQUIRED AND FREQUENCY OF ORDER.

WE WELCOME YOUR VALUED ENQUIRIES.

WE MAY BE ABLE TO SAVE YOU MONEY ON YOUR EXISTING PARTS OR SECTIONS.

SEND US YOUR ENQUIRIES - WE WELCOME THE CHALLENGE!!!

GEORGE CULLEY (Rubber & Plastics)

8 Waddington Fold, Burnedge, Rochdale, Lancashire OL16 4QB, ENGLAND

Tel: 0560 344 9596 (VOIP) OR: 0161 622 0020 Fax: 0560 344 9597 (VOIP) OR: 0161 622 0010

Email: gculley251@aol.com www.rubber-extrusions-seals.co.uk