

**NZ OWNED
& OPERATED**



SWG

SPECIALISED WASHERS & GASKETS

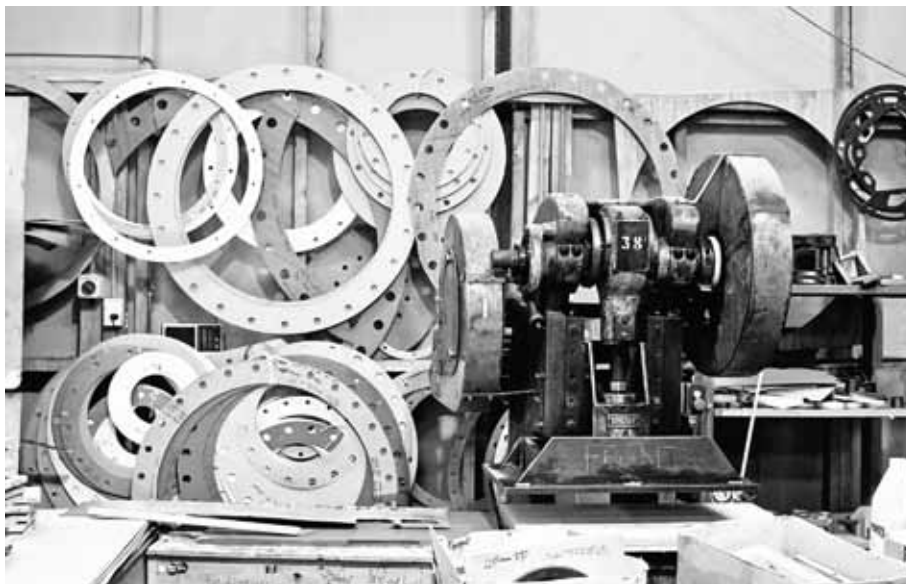
PRODUCT CATALOGUE



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Company Profile

Specialised Washers and Gaskets (SWG) is a New Zealand owned and operated company. We are a prime manufacturer of washers and gaskets operating from our factory in Otaki on the Kapiti Coast.

The company was formed in 1971 in response to demand for a supply of specialist washer and gasket products over a variety of different industries.

In 2005 the business changed ownership but remains a family-owned business and comprises a dedicated team of operators with highly specialised expertise in the manufacture of washers and gaskets.

Our clients vary from one-man businesses and manufacturers to major multinationals. The industries we work with include: electronic, roofing, agricultural, glass, water, building and construction, electrical and general engineering, marine, roading – the list is endless.

Most of our work is tailored to specific customer requirement. We pride ourselves on meeting customer needs promptly with a quick turnaround from time of order to delivery. We are happy to fulfil orders regardless of dimension or quantity – we regularly produce one-offs as well as large runs.

SWG works with a range of materials to meet client specification. These products are of both a specialist and general nature. Some of the general types of materials used are: rubber, foam, cork, red fibre, felt, composites, plastics and metals. Many other materials are available for use in industry and can be found in products in China, Mexico, France, UK, Australia, Pacific Islands and throughout New Zealand.

Over the years we have built up an extensive range of tools for washer and gasket production which gives us the advantage of rapid order turnaround and the ability to adapt tooling, or create a tool, for a specific customer need. This ensures both a quality product and client satisfaction.

**SWG is committed to supplying what our customers need.
Call us to discuss your washer and gasket needs.**



Product Range

Overview of products available from Specialised Washers & Gaskets Ltd:

- At SWG we offer you a wide range of washers and gaskets for all your sealing, packing and insulating needs.
- To ensure we source the right materials for your job is important to us so we need the right information to ensure a quality outcome.
- Materials used in manufacture are of the highest standard so customers are guaranteed the best quality.
- Experienced toolmakers (clicking and compound) are used to ensure that tooling for products is of the highest standard.
- An injection moulding machine is used to produce tap and roofing washers and the plastic and rubber moulded products to order.

Washers

SWG manufactures washers for all types of industries and to all types of specifications.

Traditionally used in the plumbing and engineering industries, washers have been used to solve leakage problems by providing a seal and, more commonly, to prevent abrasion and corrosion in lighting, electrical and architectural industries. Buffers are becoming more popular in aiding shock absorption and anti-vibration applications and spacers and packers are being used between glass and metal to prevent chaffing and distribute weight evenly.

Washers:

- are supplied in metric and imperial measurement
- are generally used for sealing, spacing and distributing the weight of a threaded fastener
- are also sometimes referred to as spacers, packers or buffers
- provide numerous fastening solutions to a wide range of industrial sectors
- have a material thickness in range from 0.2 mm to 12 mm
- can also be supplied to suit all bolts and screws.

Washers can be manufactured to a high degree of accuracy in almost all materials.
For a comprehensive list of materials we manufacture washers from refer to pages 6 & 7.

Gaskets

We have an extensive range of gasket tools and materials available to meet your requirements.

Below is information to ensure you choose the right product.

A gasket has one basic function: to create a positive seal between two relatively stationary parts. The gasket must do a number of different jobs well to function properly - first, create an initial seal; second, maintain the seal over a desired length of time; third, be easily removed and replaced. Varying degrees of success are dependent on how well the gasket does the following:

1. Seals system fluid.
2. Chemically resists the system fluid to prevent serious impairment of its physical properties.
3. Deforms enough to flow into the imperfections on the gasket seating surfaces to provide intimate contact between the gasket and the sealing surfaces.
4. Withstands system temperatures without serious impairment of its performance properties.
5. Is resilient and creep resistant enough to maintain an adequate portion of the applied load.
6. Has sufficient strength to resist crushing under the applied load, and maintain its integrity when being handled and installed.
7. Does not contaminate the system fluid.
8. Does not promote corrosion of the gasket seating surfaces.
9. Is easily and cleanly removable at the time of replacement.

During the gasket product selection process, we recommend that these nine (9) factors be used as a checklist for the buyer's and the manufacturer's degree of compliance.



Table Gaskets



SWG has an extensive range of standard table gasket cutting dies.

We cut standard table, ANSI, ASA, AS4087 and BS4504 gaskets in materials to suit customer needs, we use insertion rubber, EPDM, neoprene, nitrile, non asbestos including Shell and Waterworks approved materials plus other materials as specified and in the quantity required.

We have many templates available for those extra large gaskets that are required for the big jobs and we often make up to 1500 mm wide - five metres wide is the record!!

Our experienced staff members are able to cut table gaskets to your request and bond if necessary. Let us know your requirements and specifications and we will work with you to achieve your desired results.

Please Note: This catalogue has only common sizes and materials featured. If you do not see what you require please feel free to make contact with us anytime.

Roofing Profile Washers



Also known as load spreading or cyclone washers.

Our roofing profile washers are manufactured for most long-run roofing uses, using the appropriate metals for the roof type and location.

Roofing washers are manufactured bonded or unbonded and we have a range of sealing washers to suit.

Our team is dedicated to looking after our valued customers

Materials used in Manufacture



Below is a selection of materials commonly used in our production. If we don't have a particular material listed to meet your needs please contact us and we will endeavor to source the product for you.

Washers & Gaskets

Closed Cell Foam:

EVA (Ethylene Vinyl Acetate)	PE (Polyethylene)
EPDM Foam	Starprene (Neoprene Foam)
Closed Cell Foam - double sided adhesive)	Tape Starthene
Inseal (Sellotape foam tapes)	Tessa (adhesive backed foam tapes)

Composites:

Cho-therm (Silicon rubber/fibre glass thermal material)
Hyply laminate (Mylar plastic bonded to prespahn)
Glass filled PTFE
Double sided cenjo (non asbestos sandwiched between two thin steel outer layers)

Metals:

Aluminium	Galvanised steel
Brass	Stainless steel
Coloursteel	Steel
Copper	Zincalume

Other:

Felt	Oil jointing
Cork – Nitrile & neoprene bonded	Prespahn
Graphite	Vulcanised fibre (red fibre)
Leather	

Plastics:

Acetal Polyester
LDPE (Low Density Polyethelene)
Mylar
Nylon
Polycarbonate

Polypropylene
PTFE (Teflon)
Styrene



Rubber:

Butynol
EPDM Rubber (double sided tape)
Insertion rubber
Natural rubber
Neoprene

Nitrile
Silicon rubber
Viton

Injection Moulding

Santoprene (EPDM Blend)
Dowlex (LLDPE)

Roofing Washers

Metals:

Aluminium
Brass
Coloursteel
Copper

Galvanised steel
Stainless steel
Steel
Zincalume

Bonded Roofing Washer Material:

Butynol
Closed cell foam

EPDM
Neoprene

Common Material Thicknesses

.8 mm

1.5 mm

3.0 mm

4.5 mm

6.0 mm

Let us know what your requirements and specifications are and we will work with you to achieve your desired results.

Industries we supply ...

- Animal Health
- Building
- Civil Engineering
- Defense
- Electrical
- Electronic
- Environmental
- General Engineering
- Glass
- Hydraulics
- Irrigation
- Marine Engineering
- National Distributors
- Plumbing
- Rooding
- Roofing
- Security



Products we supply



Washers

Washers are available in a vast range of sizes. Below we have listed a number of common sizes we produce. If what you require is not listed here give us a call to see how we can help

Metric		Metric		Metric		Metric	
I.D.	O.D.	I.D.	O.D.	I.D.	O.D.	I.D.	O.D.
1.5	8.4	6	16	10	15	18.5	29.7
2.3	10	6	23	10	19	19	23.5
3	5	6	25	10	20	19	28
3	7	6.2	10	10	24	19	32.3
3	9	6.3	12	10	30	19.5	25
3	9.6	6.4	32	10	49	20	24
3	16	6.5	16	10.4	18.3	20	25
3	19	6.5	19	10.5	16	20	27.7
3.5	6.6	6.5	33	11	15	21	27.5
3.5	11	6.7	30	11	18	22	32
3.5	14	7	11	11	19.5	22	32
3.7	21	7	14	12	24	22.5	36
4	9	7	16	12.4	18	23	34.7
4	9.5	7	15.7	12.4	24	26	32
4	11	7	20	12.5	22	26.8	40
4	12	8	12.5	12.7	16	27	33
4.3	8	8	13	13	17.5	27	35
4.5	28	8	14	13	18.5	29	45
4.8	12.7	8	17.4	13	20	32	35
5	10	8	18	13	22	32.8	38
5	11	8	19	14.3	22		
5	15	8	20.4	14.5	25		
5	19	8	23	14.6	19.5		
5	17.5	8	40	14.7	25.2		
5	28	8.3	11.4	14.8	17.5		
5.2	18.3	8.3	12.8	16	19		
5.2	24	8.7	18.5	16	22.5		
5.4	18	9	20	16	24		
5.5	9.7	9	31.2	16	25.2		
5.5	12	9.5	14.2	16	30.5		
5.5	21	9.5	16	16	69.2		
		9.5	18.5	16.5	28.5		

**Listed above is a list of our compound tool sizes.
We also have hundreds of other sizes that may suit your needs.
Contact us if you don't see the size that you need.**

Handy conversions to help you get the right size product

Conversion Imperial to Metric

Millimetres	Inches
0.74	1/32
1.07	3/64
1.42	1/16
1.78	5/64
2.57	3/32
2.9	1/8
3.68	5/32
4.47	3/16
5.28	7/32
6.07	1/4
7.65	5/16
9.25	3/8
10.82	7/16
12.42	1/2
14	9/16
15.6	5/8
17.17	11/16
18.77	3/4
20.35	13/16
21.95	7/8
23.52	15/16
25.12	1
50.52	2
75.92	3
101.34	4
126.76	5

Metal screw Diameters

Size	Millimetres	Nearest Fraction
4	2.82	7/64
6	3.56	9/64
8	4.33	11/64
10	4.85	3/16
12	5.62	7/32
14	6.38	1/4

Tap and Plumbing Washers



One of our primary objectives is to ensure customer's needs are not just met but exceeded.

SWG code	Size x mm	Description	Material
WMUWAS12	14 x 24.5 x 3 1/2 "	hose union (cut)	Insertion rubber
42203	15 x 24 x 3.35 1/2 "	hose union (moulded)12/15mm	Blue
42204	20.8 x 32 x 3.75	3/4" hose union (moulded)	Blue
WMDTAP19	4.7 x 23.6 x 4.5	Tap washer (moulded)19/20mm	Blue
42205	4.8 x 18.7	Tap washer 12/15mm moulded	Blue
42206	4.7 x 18.1	Tap washer 12/15mm moulded cone	Blue
42207	4.7 x 22.4	Tap washer 20mm moulded cone	Blue
42208	12.6 x 25.2 x 3.3	Washer (moulded)	Blue
WRF18x23	18.47 x 23.85 x 1.6	Kent washers 15mm	Red Fibre
WRF24x30	24.5 x 30 x 1.6	Kent washers 20mm	Red Fibre
WRF32.5	32.5 x 38.1 x 1.6	Kent washers 25mm	Red Fibre
WRF38x50	38.5 x 49 x 1.6	Kent washers 30mm	Red Fibre
WRF45	45 x 55 x 1.6	Kent washers 40mm	Red Fibre
WRFBO12.7	24 x 28 x 1.6	Body washer 12mm	Red Fibre
WRFBO20	28.8 x 33.6 x 1.6	Body Washer 20mm	Red Fibre
WRFTAP10	5 x 15 x 3	Tap washer 10mm	Red Fibre
WRFTAP12	5.2 x 18.3 x 3	Tap washer 12/15	Red Fibre
WRFTAP20	5 x 24 x 3	Tap washer 20mm	Red Fibre
WRFTAP25	5 x 28 x 3	Tap washer 25mm	Red Fibre
J2Tapjumper		Tap Jumper Valve	Acetal
J5Tapjumper		Tap Jumper Valve	Acetal
WP15	21.7 x 37 x 2.6	Poly washer 15mm Easy Clean Trap	LDPE
WP20	26.9 x 41 x 2.6	Poly washer 20mm ECT	LDPE
WP25	34.4 x 50 x 2.6	Poly washer 25mm ECT	LDPE
WP32	42.3 x 62.3 x 2.6	Poly washer 32mm ECT	LDPE
WP40	47.5 x 70.7 x 2.6	Poly washer 40mm ECT	LDPE
WP50	59.6 x 81.3 x 2.6	Poly washer 50mm ECT	LDPE
WP65	76 x 105 x 1.6	Poly washer 65mm ECT	LDPE
WP75	87 x 114 x 1.6	Poly washer 75mm ECT	LDPE
WNP24	24 x 61 x 1.6	Cistern washer DUX	Neoprene
WV12.5	13 x 61 x 7	Cistern washer STANLEY	Viking 40
WEDPM33x62x1.6	33x62x1.6	Cistern flush valve washer	EPDM
WEPDM12	12.7 Disk x 3	Ballcock washer	EPDM

Definition of a gasket:

A gasket is a mechanical seal that fills a space between two objects generally to prevent leakages while under compression.

We supply gaskets in a wide variety of shapes and sizes from simple rounds and squares to complicated profiles with slits, slots cutouts and holes to allow for assembly over studs and pins and other components.

We have a wide variety of materials available to suit the customer's needs. Whether it is supplying numerous industrial sectors from the extensive materials available from a nitrile gasket to seal against oil, a neoprene gasket for a construction project or a fibre or foam gasket in window applications (refer to materials pages 6 & 7) we can accommodate almost any design.

We specialise in the production of gaskets, many of which require highly specific materials.

Many of these highly specified products are exported to various parts of the world.

We make specialist gaskets, to order in special shapes and from special materials.



Flange Gaskets



Refer page 6 & 7 for full range of materials used.

There is potential for over 5000 variations of gaskets.

Flange Gaskets are generally full face or IBC, other styles are available on request.

Gasket Types	NB	Thickness	Material	
* BS 4504	PN 2.5	15mm	.8 mm	Rubber
	PN 6	20mm	1.0 mm	Silicon
	PN 10	25mm	1.5 mm	Comp Fibre
	PN 16	32mm	1.6 mm	Plastic
	PN 25	40mm	3.0 mm	Neoprene
	PN 40	50mm	4.5 mm	EPDM
* AS 4087		65mm	6.0 mm	Nitrile
* ASA	25 lb	80mm		Viton
	125lb	100mm		Nylon
	150lb	125mm		Prespahn
	300lb	150mm		Closed Cell Foam
	600lb	200mm		Cork
* ANSI Class		250mm		Non asbestos
	B16.1 25	300mm		+ other materials
		125	350mm	
		250	400mm	
	B16.5 150	450mm		
		300	500mm	
		400	+ other sizes	
		600		
		900		
		1500		

* Table - A, D, E, F, H, J

* Full Face

* Inside bolt circle (IBC)

See page 14 for key to ordering flange gaskets

The team at SWG is small therefore we are able to ensure that the customer is always looked after and supply make in a timely manner

Key to ordering your Flange Gaskets ...

Example FGPN16F400x3mm I/R

FG = Flange gasket
PN = Type of gasket (refer to chart page 13)
F = Full face
400 = NB (nominal bore)
3mm = Thickness of gasket material
I/R = Gasket material, in this case insertion rubber

Alternatively ...

1. Measure flange I.D. and O.D.
2. Count the number of bolt holes and hole diameter.
3. Across the flange, measure the inside edge of one hole to the outside edge of the hole directly opposite (this is known as the PCD (pitch circle diameter) and is the circle diameter that the holes are centered on.
4. From this information we will know the type of gasket you need. We will also need to know the conditions the materials will be in i.e. temperature, fluid in pipe, pressure of fluid etc. If you need more information refer to page 4, 1-9.

**Talk to us about what you need.
We provide general and specialist gaskets for
all situations.**

Roofing Washers

Load spreading Roofing Washers and Seals

Our codes for Roofing Washers

example : RWCSBTRIM
RW= roofing washer
CS= colour steel
B = bonded
Trim = profile

LT 7 **Roof Type:** MC700, MC760, MC770, Metcom, Metcom 930, Metrib760, T Rib, MC 1000, MC750, Windek, Reddy Roof, LT7, Metric.

Use with: 35mm EPDM Sealing Washer

Available in: Bonded and unbonded

Thickness: .55mm, Colour Steel only available in this thickness
.95mm.
1.2mm



Material & Code:

Aluminium	RWABLT7 / RWAULT7
Colour Steel	RWCSBLT7 / RWCSULT7
Galvanised	RWGBLT7 / RWGULT7
Stainless	RWSBLT7 / RWSULT7
Zinc	RWZBLT7 / RWZULT7

Price: P.O.A

BB900 **Roof Type:** Steelspan 900, Multispan 900 (unribbed), BB900

Use with: 35mm EPDM Sealing Washer

Available in: Bonded and unbonded

Thickness: .55mm, Colour Steel only available in this thickness
.95mm.
1.2mm



Material & Code:

Aluminium	RWABBB900 / RWAUBB900
Colour Steel	RWCSBBB900 / RWCSUB900
Galvanised	RWGBBB900 / RWGUBB900
Stainless	RWSB BB900/ RWSUBB900
Zinc	RWZBBB900 / RWZUBB900

Price: P.O.A

Trimdek **Roof Type:** Corrugate, Trimline, Veedek, Styline, Trimroof, Rib Roof, Trimform, Twinline

Use with: 35mm EPDM Sealing Washer

Available in: Bonded and unbonded

Thickness: .55mm, Colour Steel only available in this thickness
.95mm.
1.2mm



Material & Code:

Aluminium	RWABTRIM / RWAUTRIM
Colour Steel	RWCSBTRIM / RWCSUTRIM
Galvanised	RWGBTRIM / RWGUTRIM
Stainless	RWSBTRIM / RWSUTRIM
Zinc	RWZBTRIM / RWZUTRIM

Price: P.O.A

Dim
(Diamond Shape)

Roof Type: Dimondek 400

Available in: Bonded and unbonded

Thickness: .55mm, Colour Steel only available in this thickness
.95mm.
1.2mm



Material & Code:

Aluminium	RWABDIM / RWAUDIM
Colour Steel	RWCSBDIM / RWCSUDIM
Galvanised	RWGBDIM / RWGUDIM
Stainless	RWSBDIM / RWSUDIM
Zinc	RWZBDIM / RWZUDIM

Price: P.O.A

Super Six

Roof Type: Super Six Rib



Use with: 35mm EPDM Sealing Washer

Available in: Bonded and unbonded

Thickness: 55mm,
.95mm.
1.2mm

Material & Code:

Aluminium	RWABSUP/ RWAUSUP
Colour Steel	RWCSBSUP/ RWCSUSUP
Galvanised	RWGBSUP/ RWGUSUP
Stainless	RWSBSUP/RWSUSUP
Zinc	RWZBSUP/RWZUSUP



Price: P.O.A

Special Extra long

Roof Type: MC100, MC750

Use with: areas that need greater coverage

Available in: Bonded and unbonded

.55mm, Colour Steel only available in this thickness
.95mm.
1.2mm



Material & Code:

Aluminium	RWABSEL / RWAUSEL
Colour Steel	RWCSBSEL / RWCSUSEL
Galvanised	RWGBSEL / RWGUSEL
Stainless	RWSBSEL / RWSUSEL
Zinc	RWZBSEL / RWZUSEL

Price: P.O.A

Type: Sealing Washer

Size: 35mm

Roof Type: All types

Use with: All unbonded roofing washers

Available in: EPDM

Price: P.O.A



Type: Sliding Washer

Size: 30mm x 40mm Butynol & Mylar bonded
19mm x 40mm Butynol & Mylar bonded



Type: Round Washers

Size: 10 x 22 Galvanised Steel bonded (Silo washer)
8 x 16 Galvanised Steel bonded (Silo washer)
5 x 17 Galvanised Steel bonded
4 x 9.7 Galvanised Steel bonded (Tile nail washer)

7 x 19 Aluminium bonded
5 x 12.7 Aluminium bonded



Available in: All metals and sealing materials as in roofing washers - refer p7

Type: Ridge Washer

Size: 6.25 x 25
7.5 x 19

Available in: All metals and sealing materials as in roofing washers - refer p7

