

**WASCA**  
**FASTENERS**



[www.wasca.com.au](http://www.wasca.com.au)



**2014** marks 50 years since WASCA started producing the company's first batch of stamped components from a small factory in Springvale, Victoria.



**WASCA**

Over this time, we have grown and diversified our business and product range considerably to become the leading manufacturer and supplier of washers, stamped components, pressings, fasteners and custom designed solutions.

These products are used in a broad range of global industries and applications including: Mining, Construction, Marine, Automotive, Power and General Industry.

Today WASCA remains a family business which is still owned and operated by the Coyne family. Third generation family members Chris and Daniel Coyne are qualified Engineers and are highly committed to supplying the highest quality fasteners and components available in Australia, further contributing to the Australian Manufacturing Industry.





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# Metric Engineers Washers

## Metric Engineers Washers to AS1237:1973

Size	Packet Qty	Carton Qty	Zinc Cr3	Z/Y
M2 x 5.0 x 0.3	200	10,000	1000245	N/A
M2.5 x 6.5 x 0.5	200	10,000	1000246	N/A
M3 x 7.0 x 0.5	200	10,000	1000247	1080750
M4 x 9.0 x 0.8	200	10,000	1000248	1080751
M5 x 10.0 x 1.0	200	10,000	1000249	1080752
M6 x 12.5 x 1.2	200	10,000	1000250	1080753
M8 x 17.0 x 1.2	200	10,000	1000251	1080754
M10 x 21.0 x 1.6	200	5,000	1000252	1080755
M12 x 24.0 x 1.6	200	5,000	1000253	1080756
M16 x 30.0 x 2.0	200	2,000	1000254	1080757
M20 x 37.0 x 2.0	100	1,000	1000255	1080758
M24 x 44.0 x 2.0	100	500	1000256	1080759

## Metric Engineers Washers to AS1237:2002 (DIN125A)

Size	Packet Qty	Carton Qty	Zinc Cr3	Z/Y	HDG
M6 x 12.0 x 1.6	200	10,000	1080152	1002097	1080769
M8 x 16.0 x 1.6	200	10,000	1080153	1002098	1080770
M10 x 21.0 x 2.0	200	5,000	1080154	1002099	1080771
M12 x 24.0 x 2.5	200	2,000	1080155	1002100	1080772
M16 x 30.0 x 3.0	100	1,000	1080156	1002101	1080773
M20 x 37.0 x 3.0	100	1,000	1080157	1002102	1080774
M24 x 44.0 x 4.0	50	250	1080158	1080760	1080775
M30 x 56.0 x 4.0	20	100	1080159	1080761	1080776
M36 x 66.0 x 5.0	15	60	1080160	1080762	1080777

## Thickness Gauge Conversion Table

Gauge Thickness (mm)					
10#	3.2	16#	1.6	22#	0.7
11#	2.9	18#	1.2	23#	0.6
12#	2.5	19#	1.0	24#	0.5
14#	2.0	20#	0.9	25#	0.5
15#	1.8	21#	0.8	N/A	N/A

# Imperial Engineers Washers

## Imperial Engineers Washers to BS3410:1961

Size	Packet Qty	Carton Qty	Zinc Cr3
3/32 x 1/4 x 22#	200	10,000	1000079
1/8 x 5/16 x 22#	200	10,000	1000080
1/8 x 3/8 x 20#	200	10,000	1000081
5/32 x 3/8 x 20#	200	10,000	1000082
5/32 x 7/16 x 20#	200	10,000	1000083
3/16 x 7/16 x 20#	200	10,000	1000084
3/16 x 1/2 x 20#	200	10,000	1000085
3/16 x 5/8 x 18#	200	10,000	1000086
1/4 x 1/2 x 18#	200	10,000	1000087
1/4 x 9/16 x 18#	200	10,000	1000088
1/4 x 5/8 x 18#	200	10,000	1000089
1/4 x 7/8 x 18#	200	5,000	1000698
5/16 x 5/8 x 18#	200	10,000	1000090
5/16 x 3/4 x 18#	200	5,000	1000091
5/16 x 7/8 x 18#	200	5,000	1001259
5/16 x 7/8 x 16#	200	5,000	1000092
3/8 x 5/8 x 18#	200	10,000	1004999
3/8 x 3/4 x 18#	200	5,000	1001184
3/8 x 3/4 x 16#	200	5,000	1000093
3/8 x 7/8 x 18#	200	5,000	1001188
3/8 x 7/8 x 16#	200	5,000	1000094
7/16 x 7/8 x 16#	200	5,000	1000095
7/16 x 1 x 16#	200	2,000	1000096
1/2 x 1 x 16#	200	2,000	1000097
1/2 x 1 1/8 x 16#	200	2,000	1000098
9/16 x 1 1/8 x 16#	200	2,000	1000099
5/8 x 1 1/4 x 15#	200	2,000	1000100
5/8 x 1 3/8 x 15#	200	1,000	1000101
3/4 x 1 1/2 x 14#	100	1,000	1000102
7/8 x 1 5/8 x 14#	100	1,000	1000103
1 x 1 7/8 x 14#	100	500	1000104
1 x 2 1/8 x 14#	100	500	1001192
1 1/8 x 2 1/8 x 14#	50	500	1001196

*\*\*See Thickness Gauge Conversion Table on page 1\*\**

# Imperial Mudguard Washers

## Imperial Engineers Washers to BS3410:1961

Size	Packet Qty	Carton Qty	Zinc Cr3	WASCOAT™
1/8 x 1/2 x 20#	200	10,000	1000950	N/A
1/8 x 5/8 x 18#	200	10,000	1001200	N/A
5/32 x 5/8 x 16#	200	5,000	1001264	N/A
3/16 x 1/2 x 16#	200	10,000	1001204	1080676
3/16 x 5/8 x 16#	200	5,000	1001310	1080677
3/16 x 3/4 x 18#	200	5,000	1000371	1080678
3/16 x 3/4 x 16#	200	5,000	1000372	1080679
3/16 x 1 x 16#	200	2,000	1000692	1080680
3/16 x 1 1/4 x 16#	200	2,000	1000693	1080681
1/4 x 1/2 x 16#	200	10,000	1001208	N/A
1/4 x 3/4 x 18#	200	5,000	1000373	N/A
1/4 x 3/4 x 16#	200	5,000	1000374	N/A
1/4 x 1 x 16#	200	2,000	1000375	1080685
1/4 x 1 1/4 x 16#	200	2,000	1000376	1080686
1/4 x 1 1/2 x 16#	200	1,000	1005088	1080687
1/4 x 2 x 16#	100	500	1000377	1080688
5/16 x 1/2 x 18#	200	10,000	1001344	N/A
5/16 x 3/4 x 16#	200	5,000	1000378	1080690
5/16 x 1 x 16#	200	2,000	1000379	1080691
5/16 x 1 1/4 x 16#	200	2,000	1000380	1080692
5/16 x 1 1/2 x 16#	200	1,000	1000993	1080693
5/16 x 2 x 16#	100	500	1000381	1080694
3/8 x 1 x 16#	200	2,000	1000382	N/A
3/8 x 1 1/4 x 16#	200	2,000	1000383	1080696
3/8 x 1 1/2 x 16#	200	1,000	1000384	1080697
3/8 x 1 7/8 x 14#	100	500	1000945	N/A
3/8 x 2 x 16#	100	500	1000385	1080699
3/8 x 2 x 12#	100	500	1000386	1080700
1/2 x 1 1/4 x 16#	200	2,000	1001212	1080701
1/2 x 1 1/2 x 14#	200	1,000	1000388	1080702
1/2 x 1 7/8 x 14#	100	500	1000942	1080703
1/2 x 2 x 16#	100	500	1000389	1080704
1/2 x 2 x 12#	100	500	1000390	1080705
9/16 x 1 1/4 x 16#	200	2,000	1000997	1080706
5/8 x 2 x 16#	100	500	1000391	1080707
5/8 x 2 x 12#	100	500	1000392	1080708
M10 x 1 1/4 x 16#	200	2,000	1000387	N/A

**\*\*See Thickness Gauge Conversion Table on page 1\*\***



# Commercial Washers

## Metric Commercial Washers to AS1237:1973

Bolt Size	Metric Tolerance	Packet Qty	Carton Qty	Plain	Zinc Cr3	HDG
M6	6.7/6.9 x 15.7/16.0 x 1.8/2.1	200	5,000	1002049	1002059	1002069
M8	8.4/8.6 x 19.7/21.0 x 1.8/2.1	200	4,000	1002050	1002060	1002070
M10	10.5/11.0 x 22.7/24.0 x 1.8/2.1	200	3,000	1002051	1002061	1002071
M12	13.2/14.0 x 28.0/29.0 x 2.5/2.7	100	2,000	1002052	1002062	1002072
M16	17.2/18.0 x 32.4/34.0 x 2.5/2.7	100	1,000	1002053	1002063	1002073
M20	21.0/22.0 x 37.4/39.0 x 2.5/2.7	50	800	1002054	1002064	1002074
M22	24.0/25.0 x 42.2/44.0 x 2.5/2.7	50	500	1080170	1080175	1080181
M24	26.0/27.0 x 48.4/50.0 x 3.7/4.2	25	300	1002055	1002065	1002075
M27	30.0/31.0 x 54.1/56.0 x 3.7/4.2	25	200	1080171	1080176	1080182
M30	33.0/34.5 x 58.1/60.0 x 4.7/5.2	25	200	1002056	1002066	1002076
M36	39.0/40.5 x 70.0/72.0 x 5.7/6.3	25	100	1002057	1002067	1002077
M42	45.0/46.0 x 77.0/80.0 x 5.7/6.3	10	100	1002058	1080177	1002078
M48	52.0/53.0 x 93.8/96.0 x 7.5/8.5	10	40	1080172	1080178	1080183
M56	62.0/63.0 x 109.8/112.0 x 8.5/9.5	10	40	1080173	1080179	1080184
M64	70.0/71.0 x 125.5/128.0 x 8.5/9.5	5	20	1080174	1080180	1080185

## Metric Extra Commercial Washers to AS1237:1973

Bolt Size	Metric Tolerance	Carton Qty	Plain	Zinc Cr3	HDG
M10	11.0/11.5 x 28.7/30.0 x 2.3/2.7	1,000	1006899	1006909	1006904
M12	14.0/14.5 x 35.4/37.0 x 2.8/3.2	500	1006900	1006910	1006905
M16	18.0/18.5 x 48.4/50.0 x 3.7/4.2	200	1006901	1006911	1006906
M20	22.0/23.0 x 58.1/60.0 x 3.7/4.2	150	1006902	1006912	1006907
M24	26.0/27.0 x 70.1/72.0 x 5.7/6.2	75	1006903	1006913	1006908
M30	33.0/34.0 x 89.8/92.0 x 5.7/6.2	60	1080190	1080192	1080194
M36	39.0/40.0 x 107.8/110.0 x 7.5/8.5	50	1080191	1080193	1080195

# Commercial Washers

## Imperial Commercial Washers to BS3410:1961

Bolt Size	Metric Tolerance	Packet Qty	Carton Qty	Plain	Zinc Cr3	HDG
1/4 (M6)	6.8/7.2 x 18.7/19.3 x 1.4/1.8	200	5,000	1080100	1080114	1080126
5/16 (M8)	8.8/9.2 x 21.7/22.3 x 1.6/2.0	200	3,000	1080101	1080115	1080127
3/8 (M10)	10.8/11.2 x 25.7/26.3 x 1.8/2.2	200	2,000	1080102	1080116	1080128
1/2 (M12)	13.5/13.9 x 31.7/32.3 x 2.3/2.7	100	800	1080103	1080117	1080129
5/8 (M16)	17.6/18.2 x 37.5/38.5 x 2.7/3.3	100	400	1080104	1080118	1080130
3/4 (M20)	21.2/21.8 x 44.5/45.5 x 2.9/3.5	50	250	1080105	1080119	1080131
7/8 (M22)	23.7/24.3 x 50.5/51.5 x 3.2/3.8	50	250	1080106	1080120	1080132
1" (M24)	26.7/27.3 x 54.5/55.5 x 3.7/4.3	25	150	1080107	1080121	1080133
1 1/8 (M27)	29.3/30.3 x 59.5/60.5 x 4.2/4.8	20	100	1080108	1080122	1080134
1 1/4 (M30)	32.9/33.7 x 65.2/66.8 x 4.5/5.5	15	75	1080109	1080123	1080135
1 3/8 (M33)	35.9/36.7 x 70.2/71.8 x 5.0/6.0	10	50	1080110	1080124	1080136
1 1/2 (M36)	38.9/39.7 x 75.2/76.8 x 5.5/6.5	10	40	1080111	1080125	1080137
1 3/4 (M42)	44.9/45.7 x 82.2/83.8 x 6.5/7.5	10	40	1080112	N/A	1080138
2" (M48)	51.9/52.4 x 95.2/96.8 x 7.5/8.5	10	30	1080113	N/A	1080139

## Come to the place with the largest range!

Did you know that WASCA manufacture and supply multiple ranges of Commercial washers that are currently in the market? Our metric range is manufactured to AS1237:1973 and our Imperial range is manufactured to BS3410:1961; which boasts larger outside diameters and greater thicknesses. All are available in Plain Steel, Zinc Cr3 and Hot Dipped Galvanised.

But remember, as Australia's premium stamping manufacturer, if standard sizes stocked do not suit or you are looking for a custom size, do not hesitate to contact Sales for a quote.



# Flat Section Spring Washers

## Flat Section Metric Spring Washers to DIN127B

Size	Packet Qty	Carton Qty	Zinc Cr3	Z/Y	HDG	Black
M3 x 1.3 x 0.8	200	10,000	1000403	1080783	N/A	N/A
M4 x 1.5 x 0.9	200	10,000	1000404	1080784	N/A	N/A
M5 x 1.8 x 1.2	200	10,000	1000405	1080785	N/A	1008000
M6 x 2.5 x 1.6	200	10,000	1000406	1080786	1001345	1008001
M8 x 3.0 x 2.0	200	5,000	1000407	1080787	1005083	1008002
M10 x 3.5 x 2.2	200	5,000	1000408	1080788	1000970	1008004
M12 x 4.0 x 2.5	200	2,000	1000409	1080789	1000969	1008005
M14 x 4.5 x 3.0	200	2,000	1008035	1080790	N/A	1008007
M16 x 5.0 x 3.5	200	1,000	1000410	1080791	1000968	1008008
M20 x 6.0 x 4.0	100	500	1000411	1080792	1000967	1008010
M24 x 7.0 x 5.0	100	500	1000412	1080793	1000966	1008012
M30 x 8.0 x 6.0	50	250	1080140	1080794	1080141	N/A
M36 x 8.0 x 6.0	50	250	N/A	N/A	1080142	N/A

## Flat Section Imperial Spring Washers to ANSI B18.21.1 1999

Size	Packet Qty	Carton Qty	Zinc Cr3	Black
1/8 x 3/64 x 1/32	200	10,000	1000834	N/A
5/32 x 1/16 x 3/64	200	10,000	1000425	N/A
3/16 x 1/16 x 3/64	200	10,000	1000426	1008062
1/4 x 3/32 x 1/16	200	10,000	1000427	1008063
5/16 x 1/8 x 5/64	200	5,000	1000428	1008064
3/8 x 1/8 x 3/32	200	5,000	1000429	1008065
7/16 x 5/32 x 3/32	200	2,000	1000430	1008066
1/2 x 3/16 x 1/8	200	2,000	1000431	1008067
9/16 x 3/16 x 1/8	200	2,000	1000432	1008068
5/8 x 7/32 x 5/32	200	1,000	1000433	1008069
3/4 x 1/4 x 3/16	100	500	1000434	1008070
7/8 x 1/4 x 7/32	50	250	1000435	1008071
1 x 5/16 x 1/4	50	250	1000436	1008072
1 1/8 x 5/16 x 1/4	25	250	1008664	N/A
1 1/4 x 5/16 x 1/4	25	125	1008666	N/A
1 1/2 x 3/8 x 1/4	25	125	1008668	N/A

# Flat Section Heavy Duty Spring Washers

## Flat Section Heavy Duty Metric Spring Washers to DIN127B

Size	Packet Qty	Carton Qty	Zinc Cr3	Black
M6 x 3.2 x 1.6	200	10,000	1080827	1080834
M8 x 3.2 x 2.5	200	10,000	1080828	1080835
M10 x 4.0 x 2.5	200	5,000	1080829	1080836
M12 x 4.8 x 3.2	100	2,000	1080830	1080837
M16 x 5.5 x 4.0	100	1,000	1080831	1080838
M20 x 8.0 x 6.4	50	250	1080832	1080839
M24 x 10.0 x 6.0	50	250	1080833	1080840

## Flat Section Heavy Duty Imperial Spring Washers to ANSI B18.21.1 1999

Size	Packet Qty	Carton Qty	Zinc Cr3	Black
3/16 x 3/32 x 1/16	200	10,000	1008095	1008086
1/4 x 1/8 x 1/16	200	10,000	1008096	1008087
5/16 x 9/64 x 3/32	200	5,000	1008097	1008088
3/8 x 5/32 x 3/32	200	5,000	1008098	1008089
7/16 x 3/16 x 1/8	200	2,000	1008099	1008090
1/2 x 3/16 x 5/32	200	2,000	1008100	1008091
5/8 x 7/32 x 3/16	100	1,000	1008101	1008092
7/8 x 5/16 x 1/4	50	250	1008102	1008093
1 1/4 x 3/8 x 5/16	25	125	1008085	1008073

## Ever needed a product that doesn't quite fit into the criteria of standard?

Well when it comes to stamped components, WASCA can help.

Whether you have a sample or even a simple sketch, our experienced Engineers can help solve your problem quickly and cost effectively. We can handle any diameter or thickness and can co-ordinate any special requirements such as plating finishes, heat treatment or even shipping requirements!



# Square Section Spring Washers

## Square Section Metric Spring Washers to DIN7980

Size	Packet Qty	Carton Qty	Zinc Cr3	Black
M4 x 1.2 x 1.2	200	10,000	1008053	1008043
M4 x 1.5 x 1.5	200	10,000	1005221	N/A
M5 x 1.5 x 1.5	200	10,000	1004942	1008044
M6 x 1.5 x 1.5	200	10,000	1007293	1008045
M6 x 2.5 x 2.5	200	10,000	1004789	N/A
M8 x 2.0 x 2.0	200	5,000	1004202	1008046
M8 x 2.5 x 2.5	200	10,000	1004794	N/A
M10 x 2.5 x 2.5	200	5,000	1004827	1008047
M10 x 3.2 x 3.2	200	5,000	1004793	N/A
M12 x 2.5 x 2.5	200	5,000	1008058	1008048
M12 x 3.2 x 3.2	200	2,000	1005033	N/A
M12 x 4.0 x 4.0	200	2,000	1005693	N/A
M16 x 3.2 x 3.2	200	1,000	1005121	N/A
M16 x 3.5 x 3.5	200	2,000	1008059	1008049
M20 x 4.5 x 4.5	100	1,000	1008060	1008050
M24 x 5.0 x 5.0	100	500	1008061	1008051

## Square Section Imperial Spring Washers to ANSI B18.21.1 1999

Size	Packet Qty	Carton Qty	Zinc Cr3	HDG	Black
1/8 x 3/64 x 3/64	200	10,000	1005255	N/A	N/A
5/32 x 3/64 x 3/64	200	10,000	1004818	N/A	1008105
5/32 x 1/16 x 1/16	200	10,000	1004987	N/A	N/A
3/16 x 3/64 x 3/64	200	10,000	1004949	N/A	1008106
3/16 x 1/16 x 1/16	200	10,000	1005461	N/A	N/A
1/4 x 3/32 x 3/32	200	10,000	1004791	N/A	N/A
1/4 x 1/16 x 1/16	200	10,000	1004807	1008119	1008107
5/16 x 5/64 x 5/64	200	10,000	1004806	1008120	1008108
5/16 x 3/32 x 3/32	200	10,000	1005086	N/A	N/A
3/8 x 3/32 x 3/32	200	5,000	1004816	1008121	1008109
3/8 x 1/8 x 1/8	200	5,000	1005305	N/A	N/A
7/16 x 3/32 x 3/32	200	5,000	1005338	1008122	1008110
1/2 x 7/64 x 7/64	200	2,000	1008135	1008123	1008111
1/2 x 1/8 x 1/8	200	2,000	1005479	N/A	N/A
1/2 x 5/32 x 5/32	200	2,000	1004870	N/A	N/A
5/8 x 1/8 x 1/8	200	2,000	1005046	1008124	1008112
3/4 x 3/16 x 3/16	200	1,000	1005195	N/A	N/A
3/4 x 1/4 x 1/4	100	500	1006604	1008125	1008113
7/8 x 3/16 x 3/16	100	500	1008138	1008126	1008114
1 x 3/16 x 3/16	50	500	1008139	1008127	1008115
1 x 5/16 x 5/16	50	250	1008103	N/A	1008094

# Shakeproof Washers

## Shakeproof Washers - Imperial Zinc to ANSI B18.21.1:1999

Size	Packet Qty	Carton Qty	Internal	External
1/8	1,000	50,000	1000447	1000467
5/32	1,000	50,000	1000448	1000468
3/16	1,000	25,000	1000449	1000469
1/4	1,000	10,000	1000450	1000470
5/16	1,000	10,000	1000451	1000471
3/8	1,000	10,000	1000452	1000472
7/16	1,000	5,000	1000960	1001000
1/2	1,000	5,000	1000453	1000473
5/8	500	2,500	1000454	1000474
3/4	500	2,500	1000455	1000475
7/8	500	2,500	1000456	1000476
1"	250	1,250	1006341	1002105

## Shakeproof Washers - Metric Zinc to DIN6797 Type 'J' and Type 'A'

Size	Packet Qty	Carton Qty	Type 'J' Internal	Type 'A' External
M3	1,000	50,000	1000816	1000825
M4	1,000	50,000	1000817	1000845
M5	1,000	25,000	1000818	1000827
M6	1,000	25,000	1000819	1000828
M8	1,000	10,000	1000820	1000829
M10	1,000	5,000	1000821	1000830
M12	1,000	5,000	1000822	1000831
M16	500	2,500	1000823	1000832
M20	500	2,500	1000824	1000833

**Being a responsible business, we have taken the lead in converting our affected product to be ROHS compliant.**

With a strict quality system, our products are put through rigorous in-house testing before being despatched to you, so your mind is at ease every time you receive a WASCA product. We can also offer conformance and test certificates for our standard products upon request!



# Structural & Load Indicating Washers

## Structural Washers to AS1252:1996

Size	Carton Qty	Plain	HDG
M12 (14.0/14.2 x 25.3/26.0 x 3.1)	1,000	1006134	1005031
M16 (18.0/18.4 x 32.4/34.0 x 3.1)	800	1006135	1006138
M20 (22.0/22.5 x 40.4/42.0 x 3.1)	500	1006136	1006137
M22 (24.0/24.5 x 42.4/44.0 x 3.4)	350	1006140	1006164
M24 (26.0/26.5 x 48.4/50.0 x 3.4)	350	1004988	1006139
M27 (30.0/30.5 x 54.1/56.0 x 3.4)	250	1009504	1008923
M30 (33.0/33.6 x 58.1/60.0 x 3.4)	250	1006168	1006165
M36 (39.0/39.6 x 70.1/72.0 x 3.4)	200	1006167	1006166

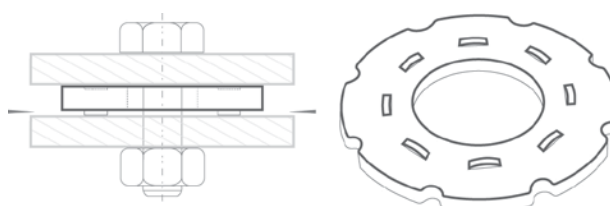
## Load Indicating Washers Hot Dipped Galvanised to ASTM F959M

Size	Carton Qty	HDG
M16 (16.7/16.8 x 35.2/36.8 x 3.2/5.5)	500	1080060
M20 (20.9/21.0 x 44.0/46.0 x 3.6/6.0)	250	1080061
M24 (25.1/25.2 x 52.8/55.2 x 4.0/7.0)	200	1080062
M30 (31.4/31.5 x 66.0/69.0 x 4.0/7.0)	150	1080063
M36 (37.7/37.8 x 79.2/82.8 x 4.8/7.5)	100	1080064

## Load Indicating Washers Tolerances

Nominal Diameter	Outside Diameter		Number of Protrusions	Thickness		Inside Diameter		Acceptable range of Compression Load Range, kn
	Min	Max		Without Protrusion	With Protrusion	Uncoated Min	Uncoated Max	
M16	35.2	36.8	4	3.2	5.5	16.7	16.8	91-109
M20	44.0	46.0	5	3.6	6.0	20.9	21.0	142-170
M22	48.4	50.6	5	3.6	6.0	23.0	23.1	176-211
M24	52.8	55.2	5	4.0	7.0	25.1	25.2	205-246
M27	59.4	62.1	6	4.0	7.0	28.3	28.4	267-320
M30	66.0	69.0	7	4.0	7.0	31.4	31.5	326-391
M36	79.2	82.8	8	4.8	7.5	37.7	37.8	475-570

Load Indicating or DTI washers are specifically designed as a mechanical load cell to indicate when the minimum required tension has been achieved in structural bolt assemblies. They are intended to be assembled under a Bolt head or Hardened washer; and have the identical material composition and hardness of Structural washers.



# WASCA® High Tensile Washers

## WASCA® High Tensile Washers based on ASTM F436:2009

Bolt Size	Metric Tolerances	Packet Qty	Carton Qty	Z/Y	Zinc Cr3	Plain	WASCOAT™
1/4 (M6)	7.1/7.2 x 15.4/15.8 x 1.8/2.1	200	5,000	1080001	1080021	1001374	1080851
5/16 (M8)	8.6/8.8 x 16.7/17.0 x 1.8/2.1	200	5,000	1080002	1080022	1001375	1080852
3/8 (M10)	10.3/10.5 x 20.2/20.6 x 1.8/2.1	200	5,000	1080003	1080023	1001376	1080853
3/8 (M10)	10.3/10.5 x 26.7/26.9 x 2.8/3.0	200	1,000	1080004	1080024	1001377	1080854
7/16	11.6/11.8 x 22.1/22.4 x 1.8/2.1	200	2,000	1080005	1080025	1001378	1080855
1/2 (M12)	13.4/13.6 x 26.7/26.9 x 2.8/3.0	200	1,000	1080006	1080026	1001379	1080856
9/16 (M14)	14.9/15.1 x 29.5/30.1 x 2.8/3.0	200	1,000	1080007	1080027	1001380	1080857
5/8 (M16)	16.7/17.0 x 32.7/33.0 x 3.1/3.7	200	1,000	1080008	1080028	1001381	1080858
3/4 (M20)	20.9/21.1 x 36.7/38.1 x 3.1/3.7	100	500	1080009	1080029	1001382	1080859
7/8 (M22)	23.7/24.1 x 43.9/44.4 x 3.5/4.0	100	500	1080010	1080030	1001383	1080860
M24	25.0/25.3 x 47.3/48.0 x 3.5/4.0	100	500	1080011	1080031	1001384	1080861
1" (M24)	27.1/27.6 x 50.0/50.8 x 3.5/4.0	100	500	1080012	1080032	1001385	1080862
1 1/8 (M27)	31.7/32.2 x 56.3/57.1 x 3.5/4.0	50	250	1080013	1080033	1001386	1080863
1 1/4 (M30)	34.9/35.4 x 62.7/63.5 x 3.5/4.0	50	250	1080014	1080034	1001387	1080864
1 3/8 (M33)	37.8/38.0 x 69.0/69.8 x 3.5/4.0	50	250	1080015	1080035	1001388	1080865
1 1/2 (M36)	40.8/41.4 x 75.4/76.2 x 3.5/4.0	25	125	1080016	1080036	1001389	1080866

## WASCA® High Tensile Washers

**Why trust anyone else but one of the original Australian manufacturers of High Tensile Washers?**

WASCA® has been producing washers in Australia for 50 Years; and became the leading manufacturer and supplier of High Tensile Washer products since 1996 when it took over the operations of Olpp Engineering - the Premium manufacturer of High Tensile Washers in Australia.

Continuing this tradition WASCA® accelerated its range, quality and expertise to offer a truly high end product, backed up by Engineering, Testing and Full Certification.

Specifically, High Tensile product demands the greatest understanding of the processes required in its production.



# High Tensile Washers - Imperial & Metric

## High Tensile Washers Zinc Yellow to ASTM F436:2009

Bolt Size	Metric Tolerances	Packet Qty	Carton Qty	Z/Y
1/4	7.1/7.9 x 15.0/16.6 x 1.2/2.0	200	5,000	1000630
5/16	8.7/9.5 x 16.6/18.2 x 1.2/2.0	200	5,000	1000631
3/8	10.3/11.1 x 19.8/21.4 x 1.2/2.0	200	5,000	1000632
7/16	11.9/12.7 x 22.6/24.2 x 1.2/2.0	200	2,000	1000634
1/2	13.4/14.3 x 26.1/27.8 x 2.4/4.4	200	1,000	1000635
9/16	15.8/16.6 x 29.3/30.9 x 2.7/4.4	200	1,000	1000636
5/8	17.4/18.2 x 32.5/34.1 x 3.0/4.4	200	1,000	1000637
3/4	20.6/21.4 x 36.4/38.1 x 3.0/4.5	100	500	1000638
7/8	23.8/24.6 x 43.6/45.2 x 3.4/4.4	100	500	1000639
1"	27.0/28.6 x 49.2/52.4 x 3.4/4.4	100	500	1000640
M24	25.0/25.3 x 47.3/48.0 x 3.4/4.4	100	500	1000660
1 1/8	30.1/31.7 x 55.5/58.7 x 3.4/4.4	50	250	1001167
1 1/4	34.9/36.5 x 61.9/65.1 x 3.4/4.4	50	250	1001168
1 3/8	38.1/39.7 x 68.2/71.4 x 3.4/4.4	50	250	1001169
1 1/2	41.2/42.8 x 74.6/77.8 x 3.4/4.4	25	125	1001170
1 3/4	47.6/49.2 x 84.1/87.3 x 4.5/7.1	20	100	1060236
2"	53.9/55.5 x 93.6/96.8 x 4.5/7.1	20	100	1060237
2 1/4	58.7/60.3 x 100.0/103.2 x 6.0/8.6	10	40	1060754
2 1/2	65.0/66.6 x 112.7/115.9 x 6.0/8.6	10	40	1060755
3"	77.7/79.3 x 138.2/141.3 x 6.0/8.6	10	40	1060756

## High Tensile Washers to ASTM F436M:2009

Bolt Size	Metric Tolerances	Packet Qty	Carton Qty	Zinc Cr3	WASCOAT™
M6	6.7/7.0 x 12.7/13.0 x 1.6/2.0	200	5,000	1080600	1080872
M8	8.7/9.0 x 18.0/18.5 x 2.0/2.5	200	5,000	1080601	1080873
M10	10.3/10.5 x 20.2/20.6 x 1.8/2.0	200	5,000	1080602	1080874
M12	13.0/13.5 x 27.0/27.5 x 4.0/4.5	200	1,000	1080603	1080875
M14	15.0/15.5 x 30.0/30.5 x 4.0/4.5	200	1,000	1080604	1080876
M16	17.0/17.5 x 34.0/34.5 x 4.0/4.5	100	1,000	1080605	1080877
M20	21.5/22.0 x 42.0/43.0 x 4.0/4.5	50	250	1080606	1080878
M24	25.5/26.0 x 49.5/50.0 x 4.5/5.0	50	250	1080607	1080879
M30	32.0/32.5 x 60.0/62.0 x 4.5/5.0	50	250	1080608	1080880
M36	38.5/39.0 x 72.0/74.0 x 4.5/5.0	25	125	1080609	1080881

**\*\*For a more superior corrosion resistant coating try WASCOAT™. See page 16 for more information\*\***

# Square Washers

## Metric Square Washers based on DIN436

Size	Carton Qty	Plain	HDG	Zinc Cr3
40 x 40 x 3 (M8 Hole)	500	1001100	1001097	N/A
40 x 40 x 3 (M10 Hole)	500	1001101	1001098	1007524
40 x 40 x 3 (M12 Hole)	500	1001180	1001099	1005714

50 x 50 x 3 (M10 Hole)	300	1001102	1001106	1001302
50 x 50 x 3 (M12 Hole)	300	1001103	1001107	1001261
50 x 50 x 3 (M16 Hole)	300	1001104	1001108	1009079
50 x 50 x 3 (M20 Hole)	300	1001105	1001109	N/A

50 x 50 x 5 (M10 Hole)	200	1001110	1001114	N/A
50 x 50 x 5 (M12 Hole)	200	1001111	1001115	N/A
50 x 50 x 5 (M16 Hole)	200	1001112	1001116	N/A
50 x 50 x 5 (M20 Hole)	200	1001113	1001117	N/A

50 x 50 x 6 (M10 Hole)	150	1001118	1001122	N/A
50 x 50 x 6 (M12 Hole)	150	1001119	1001123	1090717
50 x 50 x 6 (M16 Hole)	150	1001120	1001179	N/A
50 x 50 x 6 (M20 Hole)	150	1001121	1001124	N/A

50 x 50 x 8 (M10 Hole)	100	1060366	1091126	N/A
50 x 50 x 8 (M12 Hole)	100	1060367	1091127	N/A
50 x 50 x 8 (M16 Hole)	100	1060368	1091128	N/A
50 x 50 x 8 (M20 Hole)	100	1060369	1091129	N/A
50 x 50 x 8 (M24 Hole)	100	1060370	1091130	N/A

50 x 50 x 10 (M10 Hole)	100	1060371	1091131	N/A
50 x 50 x 10 (M12 Hole)	100	1060372	1091132	N/A
50 x 50 x 10 (M16 Hole)	100	1060373	1091133	N/A
50 x 50 x 10 (M20 Hole)	100	1060374	1091134	N/A
50 x 50 x 10 (M24 Hole)	100	1060375	1091135	N/A

65 x 65 x 5 (M12 Hole)	100	1001125	1001128	N/A
65 x 65 x 5 (M16 Hole)	100	1001126	1001130	1007361
65 x 65 x 5 (M20 Hole)	100	1001127	1001131	N/A
65 x 65 x 5 (M24 Hole)	100	1001129	1001132	N/A



# Square Washers

## Metric Square Washers based on DIN436 - continued

Size	Carton Qty	Plain	HDG
65 x 65 x 6 (M12 Hole)	100	1001133	1001136
65 x 65 x 6 (M16 Hole)	100	1001134	1001138
65 x 65 x 6 (M20 Hole)	100	1001135	1001139
65 x 65 x 6 (M24 Hole)	100	1001137	1001140
65 x 65 x 8 x (M16 Hole)	50	1060840	1091555
65 x 65 x 8 x (M20 Hole)	50	1060841	1091556
65 x 65 x 8 x (M24 Hole)	50	1060842	1091557
65 x 65 x 8 x (M30 Hole)	50	1060843	1091558
65 x 65 x 10 x (M16 Hole)	50	1060378	1091138
65 x 65 x 10 x (M20 Hole)	50	1060379	1091139
65 x 65 x 10 x (M24 Hole)	50	1060380	1091140
65 x 65 x 10 x (M30 Hole)	50	1060381	1091141
75 x 75 x 5 (M12 Hole)	50	1001141	1001146
75 x 75 x 5 (M16 Hole)	50	1001142	1001147
75 x 75 x 5 (M20 Hole)	50	1001143	1001148
75 x 75 x 5 (M24 Hole)	50	1001144	1001149
75 x 75 x 5 (M30 Hole)	50	1001145	1001150
75 x 75 x 6 (M12 Hole)	50	1001151	1001156
75 x 75 x 6 (M16 Hole)	50	1001152	1001157
75 x 75 x 6 (M20 Hole)	50	1001153	1001177
75 x 75 x 6 (M24 Hole)	50	1001154	1001178
75 x 75 x 6 (M30 Hole)	50	1001155	1001158
75 x 75 x 8 (M10 Hole)	50	1060382	1091142
75 x 75 x 8 (M12 Hole)	50	1060383	1091143
75 x 75 x 8 (M16 Hole)	50	1060384	1091144
75 x 75 x 8 (M20 Hole)	50	1060385	1091145
75 x 75 x 8 (M24 Hole)	50	1060386	1091146
75 x 75 x 8 (M30 Hole)	50	1060387	1091147
75 x 75 x 10 (M10 Hole)	40	1060388	1091148
75 x 75 x 10 (M12 Hole)	40	1060389	1091149
75 x 75 x 10 (M16 Hole)	40	1060390	1091150
75 x 75 x 10 (M20 Hole)	40	1060391	1091151
75 x 75 x 10 (M24 Hole)	40	1060392	1091152
75 x 75 x 10 (M30 Hole)	40	1060393	1091153

# Square Washers

## Metric Square Washers based on DIN436 - continued

Size	Carton Qty	Plain	HDG
75 x 75 x 12 (M10 Hole)	40	1060394	1091154
75 x 75 x 12 (M12 Hole)	40	1060395	1091155
75 x 75 x 12 (M16 Hole)	40	1060396	1091156
75 x 75 x 12 (M20 Hole)	40	1060397	1091157
75 x 75 x 12 (M24 Hole)	40	1060398	1091158
75 x 75 x 12 (M30 Hole)	40	1060399	1091159

90 x 90 x 12 (M16 Hole)	40	1060412	1091172
90 x 90 x 12 (M20 Hole)	40	1060413	1091173
90 x 90 x 12 (M24 Hole)	40	1060414	1091174
90 x 90 x 12 (M30 Hole)	40	1060415	1091175

100 x 100 x 6 x (M12 Hole)	40	1060417	1091177
100 x 100 x 6 x (M16 Hole)	40	1060418	1091178
100 x 100 x 6 x (M20 Hole)	40	1060419	1091179
100 x 100 x 6 x (M24 Hole)	40	1060420	1091180
100 x 100 x 6 x (M30 Hole)	40	1060421	1091181
100 x 100 x 6 x (M36 Hole)	40	1060422	1091182

100 x 100 x 8 (M12 Hole)	40	1060423	1091183
100 x 100 x 8 (M16 Hole)	40	1060424	1091184
100 x 100 x 8 (M20 Hole)	40	1060425	1091185
100 x 100 x 8 (M24 Hole)	40	1060426	1091186
100 x 100 x 8 (M30 Hole)	40	1060427	1091187
100 x 100 x 8 (M36 Hole)	40	1060428	1091188

100 x 100 x 10 (M12 Hole)	20	1060429	1091189
100 x 100 x 10 (M16 Hole)	20	1060430	1091190
100 x 100 x 10 (M20 Hole)	20	1060431	1091191
100 x 100 x 10 (M24 Hole)	20	1060432	1091192
100 x 100 x 10 (M30 Hole)	20	1060433	1091193
100 x 100 x 10 (M36 Hole)	20	1060434	1091194

100 x 100 x 12 x (M12 Hole)	20	1060435	1091195
100 x 100 x 12 x (M16 Hole)	20	1060436	1091196
100 x 100 x 12 x (M20 Hole)	20	1060437	1091197
100 x 100 x 12 x (M24 Hole)	20	1060438	1091198
100 x 100 x 12 x (M30 Hole)	20	1060439	1091199
100 x 100 x 12 x (M36 Hole)	20	1060440	1091200

# Tapered & Tower Washers

## Tapered Washers to AS1252:1996

Size/Description	Carton Qty	HDG	Plain	Structural HDG
M10 x 40 x 40 8° Tapered Washers	100	1006845	1006844	N/A
M12 x 40 x 40 8° Tapered Washers	100	1006849	1006848	1006851
M16 x 40 x 40 8° Tapered Washers	100	1006853	1006852	1006855
M20 x 40 x 40 8° Tapered Washers	100	1006857	1006856	1006859
M24 x 50 x 50 8° Tapered Washers	100	1006861	1006860	1006863
M30 x 57 x 57 8° Tapered Washers	100	1006865	1006864	N/A
M36 x 57 x 57 8° Tapered Washers	100	1006869	1006868	N/A

## Tower Washers to AS1559:1997

Size/Description	Carton Qty	HDG
M12 (14.0/14.3 x 22.7/24.0 x 4.7/5.5)	1,000	1000971
M16 (18.0/18.4 x 28.7/30.0 x 4.7/5.2)	750	1000972
M20 (22.0/22.5 x 35.4/37.0 x 4.7/5.2)	750	1000973
M22 (23.8/24.3 x 41.6/43.0 x 4.7/5.2)	400	1060009
M24 (26.0/26.5 x 42.4/44.0 x 4.7/5.2)	500	1000974

## WASCOAT™

**WASCOAT™** was developed as an improvement on Hot Dipped Galvanising as it is especially suitable for smaller and high tensile parts. Testing carried out has shown that **WASCOAT™** is of a higher quality and will perform better in comparison to parts that have been Hot Dipped Galvanised.

This coating is equivalent to HDG, but shows further benefits as follows:

- Improved corrosion protection
- Reduced white rusting
- No hydrogen embrittlement
- No de-tempering
- A more consistent and smoother finish
- Sticking of parts is eliminated
- Product application can be carried out with ease
- Better thread fit
- It's silver colour is aesthetically pleasing



# Brass Washers

## Flat Metric Brass Washers to AS1237:1973

Size	Packet Qty	Carton Qty	Code
M2 x 5.0 x 0.3	200	10,000	1000269
M2.5 x 6.5 x 0.5	200	10,000	1000270
M3 x 7.0 x 0.5	200	10,000	1000271
M4 x 9.0 x 0.8	200	10,000	1000272
M5 x 10.0 x 0.8	200	10,000	1000273
M6 x 12.5 x 1.0	200	10,000	1000274
M8 x 17.0 x 1.2	200	10,000	1000275
M10 x 21.0 x 1.2	200	5,000	1000276
M12 x 24.0 x 1.6	200	5,000	1000277
M16 x 30.0 x 2.0	200	2,000	1000278
M20 x 37.0 x 2.0	100	1,000	1000279
M24 x 44.0 x 2.0	100	500	1000280

## Flat Imperial Brass Washers to BS 3410:1961

Size	Packet Qty	Carton Qty	Code
3/32 x 1/4 x 24#	200	10,000	1000131
1/8 x 5/16 x 21#	200	10,000	1000132
1/8 x 3/8 x 21#	200	10,000	1000133
5/32 x 3/8 x 21#	200	10,000	1000134
5/32 x 7/16 x 21#	200	10,000	1000135
3/16 x 7/16 x 21#	200	10,000	1000136
3/16 x 1/2 x 21#	200	10,000	1000137
3/16 x 5/8 x 19#	200	10,000	1000138
1/4 x 1/2 x 21#	200	10,000	1000139
1/4 x 9/16 x 19#	200	10,000	1000140
1/4 x 5/8 x 19#	200	10,000	1000141
5/16 x 5/8 x 18#	200	10,000	1000142
5/16 x 3/4 x 18#	200	5,000	1000143
5/16 x 7/8 x 18#	200	5,000	1000144
3/8 x 3/4 x 18#	200	5,000	1000145
3/8 x 7/8 x 18#	200	5,000	1000146
3/8 x 1 x 16#	200	2,000	1000147
7/16 x 7/8 x 16#	200	5,000	1000148
7/16 x 1 x 16#	200	2,000	1000149
1/2 x 1 x 16#	200	2,000	1000150
1/2 x 1 1/8 x 16#	200	2,000	1000151
9/16 x 1 1/8 x 16#	200	2,000	1001198
5/8 x 1 1/4 x 16#	200	2,000	1000152
5/8 x 1 3/8 x 16#	200	1,000	1000153
3/4 x 1 1/2 x 14#	100	1,000	1000154
7/8 x 1 5/8 x 14#	100	1,000	1000155
1 x 1 7/8 x 14#	100	500	1000156
1 x 2 1/8 x 14#	50	250	1001348

# Stainless Steel & Screw Cup Washers

## Metric Stainless Steel Flat Washers to AS1237:1973

Size	Packet Qty	Carton Qty	304	316
M4 x 9.0 x 0.8	200	10,000	1080200	1080210
M5 x 10.0 x 1.0	200	10,000	1080201	1080211
M6 x 12.5 x 1.2	200	10,000	1080202	1080212
M8 x 17.0 x 1.2	200	10,000	1080203	1080213
M10 x 21.0 x 1.6	200	5,000	1080204	1080214
M12 x 24.0 x 1.6	200	5,000	1080205	1080215
M16 x 30.0 x 2.0	200	2,000	1080206	1080216
M20 x 37.0 x 2.0	100	1,000	1080207	1080217
M24 x 44.0 x 2.0	100	500	1080208	1080218

## Metric Stainless Steel Spring Washers to DIN127B

Size	Packet Qty	Carton Qty	304	316
M4 x 1.5 x 0.9	200	10,000	1080220	1080230
M5 x 1.8 x 1.2	200	10,000	1080221	1080231
M6 x 2.5 x 1.6	200	10,000	1080222	1080232
M8 x 3.0 x 2.0	200	10,000	1080223	1080233
M10 x 3.5 x 2.2	200	5,000	1080224	1080234
M12 x 4.0 x 2.5	200	2,000	1080225	1080235
M16 x 5.0 x 3.5	200	1,000	1080226	1080236
M20 x 6.0 x 4.0	100	1,000	1080227	1080237
M24 x 7.0 x 5.0	100	500	1080228	1080238
M30 x 8.0 x 6.0	50	500	1080229	1080239

## Screw Cup Washers

Size	Packet Qty	Carton Qty	Stainless Steel 304	Brass Nickel Plated
#4 (3.7/3.9 x 9.4/9.6 x 0.38)	1,000	25,000	1080920	1000492
#6 (4.5/4.7 x 10.3/10.5 x 0.38)	1,000	25,000	1080921	1000493
#8 (4.9/5.1 x 12.7/12.9 x 0.38)	1,000	10,000	1080922	1000494
#10 (5.2/5.4 x 14.6/14.8 x 0.38)	1,000	10,000	1080923	1000495

# Nylon Washers

## Imperial Nylon Washers

Size	Packet Qty	Carton Qty	Code
1/8 x 5/16 x 1/32	1,000	50,000	1000728
5/32 x 3/8 x 1/32	1,000	25,000	1000729
3/16 x 7/16 x 1/32	1,000	25,000	1000730
3/16 x 1/2 x 1/32	1,000	25,000	1000731
1/4 x 1/2 x 1/32	1,000	10,000	1000732
5/16 x 5/8 x 1.0	1,000	10,000	1000733
3/8 x 3/4 x 1/16	1,000	5,000	1000734
1/2 x 1 x 1/16	1,000	5,000	1000735

## Metric Nylon Washers

Size	Packet Qty	Carton Qty	Code
M3 x 8.0 x 0.8	1,000	50,000	1000736
M4 x 7.0 x 0.8	1,000	50,000	1000737
M4 x 9.0 x 0.8	1,000	50,000	1080070
M5 x 11.2 x 0.8	1,000	25,000	1000738
M5 x 11.2 x 1.0	1,000	25,000	1080071
M6 x 10.0 x 1.6	1,000	25,000	1080072
M6 x 12.5 x 1.6	1,000	10,000	1080073
M6 x 14.0 x 1.0	1,000	10,000	1000739
M6 x 14.0 x 1.6	1,000	10,000	1080074
M6 x 32.0 x 1.6	200	2,000	1080075
M8 x 16.0 x 1.0	1,000	10,000	1000740
M8 x 17.0 x 1.6	1,000	5,000	1080076
M8 x 24.0 x 2.0	500	2,500	1080077
M10 x 21.0 x 1.5	1,000	5,000	1000741
M10 x 20.0 x 2.0	500	2,500	1080078
M10 x 22.0 x 2.5	500	2,500	1080079
M10 x 30.0 x 2.5	200	1,000	1080080
M10 x 32.0 x 1.6	200	1,000	1080081
M12 x 25.0 x 1.5	1,000	5,000	1000742
M12 x 24.0 x 2.5	500	2,500	1080082
M12 x 40.0 x 3.0	200	1,000	1080083
M16 x 30.0 x 2.0	200	2,000	1008676
M16 x 30.0 x 3.0	200	1,000	1080084
M20 x 37.0 x 3.0	100	500	1008677
M24 x 44.0 x 4.0	100	500	1080085



# Automotive Set Screws & Nuts

## Hex Head Set Screws 8.8 to JIS B1180

Size/description	Packet Qty	Carton Qty	Zinc Cr3
M6 x 16 x 10 A/F x 1.0p	200	1,000	1080300
M6 x 20 x 10 A/F x 1.0p	200	1,000	1080301
M6 x 25 x 10 A/F x 1.0p	200	1,000	1080302
M6 x 30 x 10 A/F x 1.0p	200	1,000	1080303
M6 x 40 x 10 A/F x 1.0p	200	1,000	1080304
M6 x 50 x 10 A/F x 1.0p	200	1,000	1080305

M8 x 16 x 12 A/F x 1.25p	200	1,000	1080306
M8 x 20 x 12 A/F x 1.25p	200	1,000	1080307
M8 x 25 x 12 A/F x 1.25p	200	1,000	1080308
M8 x 30 x 12 A/F x 1.25p	200	1,000	1080309
M8 x 40 x 12 A/F x 1.25p	200	1,000	1080310
M8 x 50 x 12 A/F x 1.25p	150	750	1080311

M10 x 20 x 14 A/F x 1.25p	150	750	1080312
M10 x 25 x 14 A/F x 1.25p	150	750	1080313
M10 x 30 x 14 A/F x 1.25p	150	750	1080314
M10 x 35 x 14 A/F x 1.25p	100	500	1080315
M10 x 40 x 14 A/F x 1.25p	100	500	1080316
M10 x 50 x 14 A/F x 1.25p	100	500	1080317

## Hex Head Set Screws Gr5 to ANSI B18.2.1-1996

Size/description	Packet Qty	Carton Qty	Zinc Cr3
1/4 UNC x 3/4 x 7/16 A/F 20 TPI	200	1,000	1080896
1/4 UNC x 1" x 7/16 A/F 20 TPI	200	1,000	1080897
1/4 UNC x 1 1/4 x 7/16 A/F 20 TPI	200	1,000	1080898
1/4 UNC x 1 1/2 x 7/16 A/F 20 TPI	200	1,000	1080899
1/4 UNC x 2" x 7/16 A/F 20 TPI	200	1,000	1080900

5/16 UNC x 3/4 x 1/2 A/F 18 TPI	200	1,000	1080901
5/16 UNC x 1" x 1/2 A/F 18 TPI	200	1,000	1080902
5/16 UNC x 1 1/4 x 1/2 A/F 18 TPI	200	1,000	1080903
5/16 UNC x 1 1/2 x 1/2 A/F 18 TPI	200	1,000	1080904
5/16 UNC x 2" x 1/2 A/F 18 TPI	200	1,000	1080905

3/8 UNC x 3/4 x 9/16 A/F 16 TPI	150	750	1080906
3/8 UNC x 1" x 9/16 A/F 16 TPI	150	750	1080907
3/8 UNC x 1 1/4 x 9/16 A/F 16 TPI	150	750	1080908
3/8 UNC x 1 1/2 x 9/16 A/F 16 TPI	100	750	1080909
3/8 UNC x 2" x 9/16 A/F 16 TPI	100	750	1080910

# Automotive Set Screws & Nuts

## Cold Formed Hex Nuts to DIN934

Size/description	Packet Qty	Carton Qty	Zinc Cr3
M6 x 10mm A/F x 1.0	200	5,000	1080320
M8 x 12mm A/F x 1.25	200	5,000	1080321
M10 x 14mm A/F x 1.25	200	1,000	1080322

## Flanged Hex Nuts Zinc Cr3 to DIN6923

Size/description	Packet Qty	Carton Qty	Zinc Cr3
M6 x 10mm A/F x 1.0	200	1,000	1080331
M8 x 12mm A/F x 1.25	200	1,000	1080332
M10 x 14mm A/F x 1.25	200	1,000	1080333
M10 x 17 A/F x 1.5	200	1,000	1080334

## Cold Formed Hex Nuts to ANSI B18.2.2-1987

Size/description	Packet Qty	Carton Qty	Zinc Cr3
1/4 UNC x 7/16 A/F 20 TPI	200	5,000	1080335
5/16 UNC X 1/2 A/F 18 TPI	200	5,000	1080336
3/8 UNC X 9/16 A/F 16 TPI	200	1,000	1080337

## Flanged Hex Nuts to IFI-145-2002

Size/description	Packet Qty	Carton Qty	Zinc Cr3
1/4 UNC x 7/16 A/F 20 TPI	200	5,000	1080338
5/16 UNC X 1/2 A/F 18 TPI	200	5,000	1080339
3/8 UNC X 9/16 A/F 16 TPI	200	1,000	1080341

# Red Fibre, Neoprene & Other Products

## Red Fibre Washers

Size	Packet Qty	Carton Qty	1/32 Thick	1/16 Thick
3/32 x 1/4	1,000	50,000	1000661	1000674
1/8 x 5/16	1,000	50,000	1000662	1000675
1/8 x 3/8	1,000	50,000	1000663	1000676
5/32 x 3/8	1,000	50,000	1000664	1000677
3/16 x 7/16	1,000	25,000	1000665	1000678
3/16 x 1/2	1,000	25,000	1000666	1000679
1/4 x 1/2	1,000	25,000	1000667	1000680
1/4 x 9/16	1,000	25,000	1000668	1000681
1/4 x 5/8	1,000	10,000	1000669	1000682
5/16 x 5/8	1,000	10,000	1000670	1000683
5/16 x 3/4	1,000	5,000	1000671	1000684
3/8 x 3/4	1,000	5,000	1000672	1000685
1/2 x 1	1,000	5,000	1000673	1000686

## Neoprene Washers

Size	Packet Qty	Carton Qty	Code
M4 x 9.0 x 0.8	200	10,000	1080630
M5 x 10.0 x 0.8	200	10,000	1080631
M6 x 12.5 x 1.5	200	10,000	1080632
M8 x 17.0 x 1.5	200	10,000	1080633
M10 x 20.0 x 1.5	200	10,000	1080634
M12 x 25.4 x 2.4	100	5,000	1080635
M16 x 31.5 x 3.0	100	5,000	1080636
M20 x 38.0 x 3.0	100	5,000	1080637

## Hex & Square Pressed Nuts

Size	Packet Qty	Carton Qty	Zinc Cr3	Brass
<b>Hex Pressed Nuts</b>				
1/8 BSW x 1/4 AF x .078/.082	200	10,000	1000755	1000779
5/32 BSW x 5/16 AF x .091/.095	200	10,000	1000756	N/A
3/16 BSW x 3/8 AF x .102/.106	200	10,000	1000757	1000781
1/4 BSW x 1/2 AF x .123/.128	200	5,000	1000758	N/A
5/16 BSW x 12.8/13 AF x 3.8/4.0	200	5,000	1004902	N/A
<b>Square Pressed Nuts</b>				
1/8 BSW x 1/4 AF x .078/.082	200	10,000	1000771	N/A
5/32 BSW x 5/16 AF x .091/.095	200	10,000	1000772	N/A
3/16 BSW x 3/8 AF x .102/.106	200	10,000	1000773	N/A
1/4 BSW x 1/2 AF x .123/.128	200	5,000	1000774	N/A
<b>Other</b>				
Figure 8 Washers 16.50 x 29.00 (2 x 5.0 Holes)	500	2,500	1002080	N/A
Angle Bracket 1"x1" x 16# Zinc (2 x M4 Holes)	N/A	1,000	1002082	N/A



# Terms and Conditions

## Washers & Stamped Components Australia Pty Ltd Terms and Conditions

### 1. ACCEPTANCE OF ORDERS

Any quotation given by WASCA lapses if not accepted within 7 days. WASCA will only accept orders which are accompanied by payment of the required deposit (if any). All quoted prices are exclusive of GST.

### 2. TERMS OF PAYMENT

Terms of payment where WASCA has accepted the Customer's credit application, are unless agreed otherwise by WASCA, 30 days from the end of the month of invoice. If payment is not made within the above terms WASCA is entitled to calculate and charge daily interest at a rate not greater than the maximum interest rate charged by ANZ on its credit card accounts from time to time, and WASCA reserves the right to recover from Customer all costs, expenses and charges incurred by WASCA in undertaking any debt recovery action, including legal fees on a full indemnity basis. WASCA accepts payment by EFT, Cheque, VISA or Mastercard. Please note that a 1.75% merchant fee applies to VISA and Mastercard payments.

### 3. MINIMUM INVOICE / ORDER VALUE

Due to the administrative cost of each order, we are unable to process orders below \$50.00 invoice value.

### 4. DEFAULT

If Customer defaults in payment, fails to accept delivery of goods, or an application is made to a court to wind up Customer, or a receiver or administrator or trustee-in-bankruptcy is appointed to manage the affairs of Customer, then WASCA may terminate the contract and may recover from Customer reasonable compensation for materials purchased and ordered and labour expended in complying with Customer's orders.

### 5. DELIVERY AND RISK

While WASCA will use all reasonable endeavours to deliver by the date specified, it does not guarantee delivery on that date and is not liable for any Loss resulting from late delivery. Risk in the goods passes to Customer at the time of delivery. Delivery to Customer is deemed to occur at the time of delivery to Customer, its agent or carrier.

### 6. PASSING OF PROPERTY

Customer agrees that property in the goods is retained by WASCA until payment by Customer of all sums owing to WASCA, whether under this contract or otherwise. If Customer fails to pay by the due date any amount owing to WASCA, WASCA may (without prejudice to any of its other rights) recover and resell any goods in which property has not passed to Customer, and Customer hereby authorises WASCA to enter onto the premises where the goods are kept to take possession of the goods for that purpose at any time. If Customer sells or purports to sell any goods supplied by WASCA in which property has not passed to Customer, then Customer does so as a fiduciary for WASCA. The proceeds of such sale are the property of WASCA to the extent of any money owed to it by Customer. Customer must account to WASCA for that portion of the proceeds of sale, and WASCA may trace the proceeds of any such sale. Customer consents to registration by WASCA of a financing statement under the Personal Property Securities Act 2009 (Cth) ("the PPSA") to perfect the purchase money security interest created by this clause. Customer also agrees to the contracting out by WASCA of each of the obligations which it is permitted to contract out of by Section 115 of the PPSA.

### 7. CANCELLATIONS AND RETURNS

Any request by Customer for cancellation of an order must be in writing. Customer is liable to reimburse WASCA for the costs it has incurred for labour and materials in fulfilling the order up to the date the request for cancellation is received by WASCA. WASCA will accept returns of standard goods provided the goods are: (i) unused; (ii) in their original packaging, and (iii) returned within 14 days of delivery; WASCA reserves the right to charge a 15% re-stocking fee for the return of goods which are not faulty. WASCA will not accept the return of goods manufactured to Customer's order, unless the goods are faulty.

### 8. FORCE MAJEURE

Neither party is liable for any Loss incurred by the other party as a result of any delay or failure to observe any of these Terms and Conditions (other than an obligation to pay money) as a result of any circumstance beyond the party's control, including but not limited to any strike, lockout, labour dispute, act of God, fire, flood, accidental or malicious damage or breakdown in machinery. The party affected must notify the other party as soon as possible of such circumstance. During the continuance of such circumstance the obligations of the party affected, to the extent they are affected by the circumstance, are suspended and resume as soon as possible after the circumstance has ceased to have effect.

### 9. WASCA'S LIABILITY

- a) Nothing in this document is to be interpreted as having the effect of excluding, restricting or modifying any condition or warranty, or right or liability implied by any applicable legislation into the arrangement between WASCA and Customer, if such exclusion, restriction or modification would be void or prohibited by the legislation.
- b) To the extent that WASCA breaches any condition or warranty implied into the arrangement between WASCA and Customer and which cannot be excluded or modified, WASCA's liability is limited to, at WASCA's discretion, either: (i) replacement of the goods or supply of equivalent goods; (ii) payment of the cost of replacing the goods or acquiring equivalent goods; (iii) repair of the goods; or (iv) payment of the cost of having the goods repaired; and in the case of services, to: (i) supply of the services again; or (ii) payment of the cost of having the services supplied again.
- c) Subject to (a) and (b) above, WASCA is not liable to Customer (or to any third party claiming through Customer) for any Loss caused by any act or omission of WASCA, its employees or agent, and whether based on negligence or other tort, contract or otherwise.

### 10. JURISDICTION

This agreement is governed by the laws of the State of Victoria, and the parties submit to the jurisdiction of the courts of that State, and the Commonwealth of Australia.

### 11. MISCELLANEOUS

- a) The waiver of any provision or breach of these Terms and Conditions is not to be construed as a waiver of any other provision or breach, or subsequent breach of the same or any other provision of the contract.
- b) Unless agreed otherwise by WASCA and the Customer, WASCA reserves the right to deliver goods with a tolerance of up to +/- 10% of the quantity ordered by Customer.
- c) The property in any tooling and diagrams used to manufacture the goods remains always the property of WASCA.
- d) Customer indemnifies WASCA against any Loss suffered by WASCA arising out of or in connection with the supply of goods where Customer fails to communicate to WASCA the purpose for which it requires the goods, where such purpose is not otherwise obvious to WASCA from the information provided to WASCA.
- e) If any provision of these Terms & Conditions is unenforceable or void either in whole or in part for any reason then that provision (or part) is deemed to be deleted without in any way affecting the validity or enforceability of the remainder of this document.
- f) The terms and conditions of any purchase order issued by the Customer do not operate to modify or amend these Terms and Conditions
- g) The following words have the following meanings in these Terms & Conditions, unless the context requires otherwise:-  
"Customer" means the person (including its successors, personal representatives and permitted assigns) who acquires goods from WASCA, and where this consists of more than one person the obligations in these Terms & Conditions are deemed to be joint and several;  
"Goods" means all goods and/or services supplied under these Terms & Conditions;  
"Loss" means any loss, liability, damage, expense or cost whatsoever and includes (without limitation) indirect or consequential loss or damage, loss of profits or business opportunity, and damage to equipment or property; and  
"WASCA" means Washers & Stamped Components Australia Pty Ltd, ABN 48 004 614 966.

### 12. PRICE VARIATION

The price quoted by WASCA is subject to variation at any time prior to the date of delivery upon written notice to Customer. If Customer is unable or unwilling to accept delivery on or before the nominated delivery date, or if no delivery date is nominated and Customer is unable to accept delivery when WASCA gives notice that the goods are available for delivery, then WASCA will hold the goods in stock for 45 days after which time it may, at its discretion: (i) continue to hold the goods and charge Customer for storage; (ii) invoice Customer and deliver the goods in accordance with prior arrangements, notwithstanding that Customer's representative or agent is not present or is unwilling to accept the goods; or (iii) treat the contract as having been repudiated by Customer and invoice Customer for the full contract price for the goods and any other costs incurred by WASCA less any amounts received by WASCA from a bona fide sale of the goods to a third party.

### 13. ACCEPTANCE OF TERMS AND CONDITIONS

Please note that purchase of 'goods' as defined in 11(g) above, from WASCA, signifies your acceptance of these terms and conditions.



# WASCA

Located in our modern factory and warehouse in Rowville, Victoria; we remain one of only a handful of Australian suppliers with in-house CAD design, tooling and manufacturing capabilities; which helps us control quality and cost.

To further compete on a global scale we have invested in overseas manufacturing operations and have developed close relationships with many reputable International suppliers.

So the next time you require a fastener or component solution, give WASCA a go.....

With our expanded product divisions and our team of highly experienced technical staff, we are confident we can assist you no matter what...

## FASTENERS



### WASCA Fasteners catalogue

Consisting of high quality, competitively priced fasteners. Our range ensures you will find the exact product you're looking for.

## DISC SPRINGS



### WASCA Disc Springs catalogue

We are the distributor for a reputable international manufacturer of Disc Springs, Belleville, and Anti-Vibration LockRite® Washers.

## ENGINEERING



### WASCA Engineering catalogue

Our in-house capabilities and Global partners mean we can design, manufacture and/or source a fully customised project solution.

## ASSORTMENTS



### WASCA Assortments catalogue

We have compiled a total fastener assortment solution for every Industry sector. We have the right combination everytime.





# WASCA

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**F:** 03 9763 2433

**E:** [sales@wasca.com.au](mailto:sales@wasca.com.au)

**W:** [www.wasca.com.au](http://www.wasca.com.au)

**QLD Warehouse**

14 Barrinia Street  
Slacks Creek Qld 4127

**P:** 07 3208 0009

**F:** 07 3208 0030

**WA Distributor**

BG Agencies  
21 Pavers Circle  
Malaga WA 6090

**P:** 08 9248 2811

**F:** 08 9248 1264