



# FORTRESS<sup>®</sup>

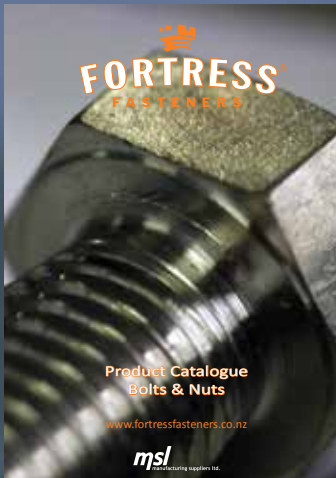
FASTENERS

Product Catalogue  
Nuts & Washers

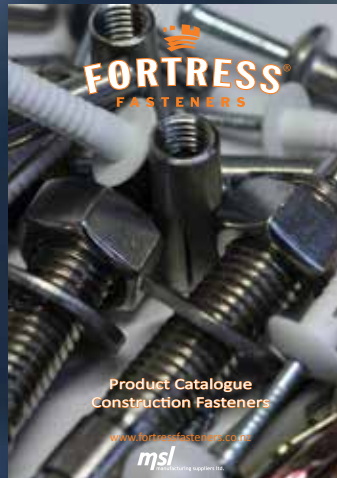
[www.fortressfasteners.co.nz](http://www.fortressfasteners.co.nz)

**msl**  
manufacturing suppliers ltd.

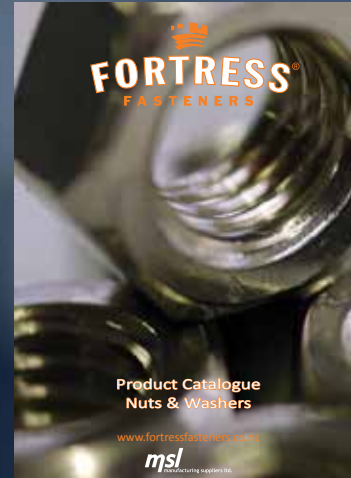
## Fortress Catalogues Now Available



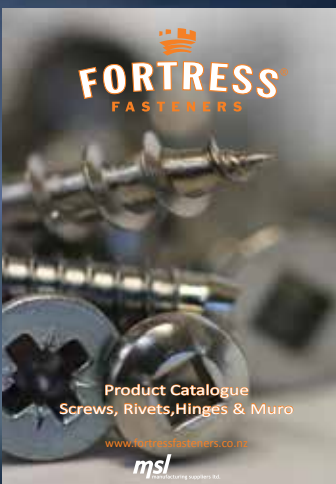
Bolts & Nuts



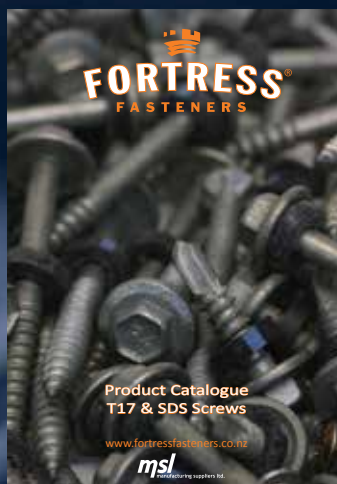
Construction Fasteners



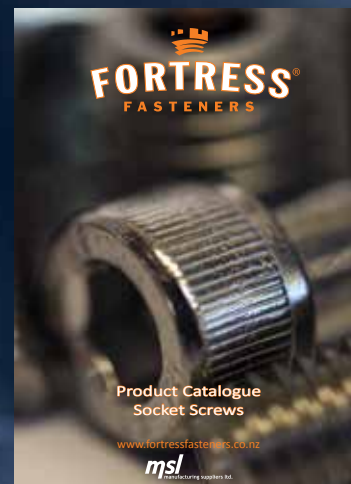
Nuts & Washers



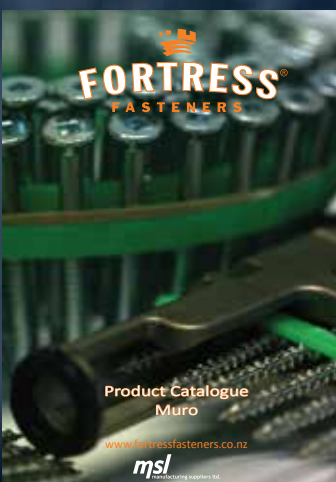
Screws, Rivets, Hinges & Muro



T17 & SDS Screws



Socket Screws



Muro - Only available online.



**FORTRESS**<sup>®</sup>  
FASTENERS

Fortress is a quality New Zealand brand conceived and distributed by MSL.

Manufacturing Suppliers Ltd (MSL) was the innovation of the company director in 1980 starting as a small operation in New Lynn, Auckland. It was his vision to meet industry demands for a range of quality fasteners backed by a dependable service. Thirty years on, this vision is still paramount, a service that delivers a range of fasteners on time, every time.

We have grown dramatically since the eighties with nine branches nationwide. Our flagship being that we remain 100% New Zealand owned and operated and continue to pride ourselves on our personal service.

Today we employ over one hundred people and have a network of fully-stocked branches carrying over 200 million items and 10,000 product lines. This makes us arguably the largest fastening wholesaler in the country. Our new products, creative packaging and merchandising initiatives have also earned us a reputation as industry innovators.

We owe our success to our ability to deliver on time and in full to a wide customer base in manufacturing industries, the building trade and to building supplies merchants in New Zealand.

This, combined with the strength of our own Fortress brand and our exceptional customer service is what makes MSL a market leader.

Our local ownership means we understand the local market and have the ability to make decisions rapidly and easily. Large enough to meet the demands of any customer, we are still small enough to offer the personal touch.

**Auckland (Head Office)**

560 Rosebank Road, Avondale  
Phone 09 828 2777  
Fax 09 828 2424

**Albany**

Unit 4, 4 William Pickering Drive  
Phone 09 414 7620  
Fax 09 414 7410

**Hamilton**

51 Vickery Street, Te Rapa  
Phone 07 850 8434  
Fax 07 850 5696

**Mount Maunganui**

7 Newton Street  
Phone 07 575 0508  
Fax 07 575 0557

**Hastings**

199 St. Aubyn Street West  
Phone 06 873 3311  
Fax 06 873 3315

**New Plymouth**

25 Hurlstone Drive, Waiwhakaiho  
Phone 06 8248950 or 06 8248951  
Fax 06 7574391

**Palmerston North**

94 Kaimanawa Street  
Phone 06 355 5990  
Fax 06 355 5880

**Wellington**

6 Regent Street, Petone  
Phone 04 586 2300  
Fax 04 586 2600

**Christchurch**

66 Hammersmith Drive, Sockburn  
Phone 03 343 6740  
Fax 03 343 6741



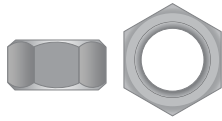
## NUTS

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## WASHERS

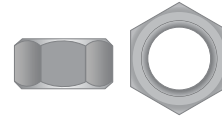
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**FORTRESS HEX FULL NUTS - GALVANISED**



SIZE	PACK QTY	CODE
M8	200	NHFSM8G
M10	100	NHFSM10G
M12	100	NHFSM12G
M16	100	NHFSM16G
M20	100	NHFSM20G
M22	25	NHFSM22G
M24	25	NHFSM24G
M30	25	NHFSM30G
M33	EACH	NHFSM33G
M36	EACH	NHFSM36G
M39	EACH	NHFSM39G
M42	EACH	NHFSM42G
M48	EACH	NHFSM48G

**FORTRESS HEX FULL NUTS - ZINC PLATED**



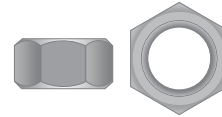
SIZE	PACK QTY	CODE
M2	200	NHFSM2Z
M2.5	200	NHFSM25Z
M3	200	NHFSM3Z
M4	200	NHFSM4Z
M5	200	NHFSM5Z
M6	200	NHFSM6Z
M8	200	NHFSM8Z
M10	100	NHFSM10Z
M12	100	NHFSM12Z
M14	100	NHFSM14Z
M16	100	NHFSM16Z
M18	100	NHFSM18Z
M20	100	NHFSM20Z
M24	50	NHFSM24Z
M30	25	NHFSM30Z

**FORTRESS HEX FULL NUTS - BLACK**



SIZE	PACK QTY	CODE
M6	100	NHFSM6B
M8	100	NHFSM8B
M10	100	NHFSM10B
M12	100	NHFSM12B
M16	100	NHFSM16B
M18	100	NHFSM18B
M20	100	NHFSM20B
M22	25	NHFSM22B
M24	25	NHFSM24B
M30	25	NHFSM30B
M36	EACH	NHFSM36B
M48	EACH	NHFSM48B

**FORTRESS HEX FULL NUTS - METRIC FINE**



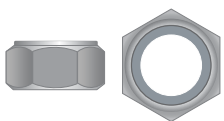
SIZE	PACK QTY	CODE	PITCH
M6 ZINC	100	NHFSMF6Z	0.75
M8 ZINC	100	NHFSMF8Z	1
M10 ZINC	100	NHFSMF10Z	1.25
M12 ZINC	100	NHFSMF12Z	1.25
M12 ZINC	100	NHFSMF12Z15	1.5
M14 ZINC	100	NHFSMF14Z	1.5
M16 ZINC	100	NHFSMF16Z	1.5
M18 ZINC	100	NHFSMF18Z	1.5
M20 ZINC	100	NHFSMF20Z	1.5
M8 BLACK	100	NHFSMF8B	1.0
M10 BLACK	100	NHFSMF10B	1.25
M12 BLACK	100	NHFSMF12B	1.25
M14 BLACK	100	NHFSMF14B	1.5
M16 BLACK	100	NHFSMF16B	1.5
M18 BLACK	100	NHFSMF18B	1.5
M20 BLACK	100	NHFSMF20B	1.5
M24 BLACK	25	NHFSMF24B	2.0

**FORTRESS HEX FULL NUTS - UNC**

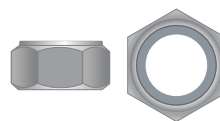

SIZE	PACK QTY	BLACK	ZINC
1/4"	150	NHFS14B	NHFS14Z
5/16"	100	NHFS516B	NHFS516Z
3/8"	100	NHFS38B	NHFS38Z
7/16"	100	NHFS716B	NHFS716Z
1/2"	100	NHFS12CB	NHFS12CZ
9/16"	100	NHFS916B	NHFS916Z
5/8"	100	NHFS58B	NHFS58Z
3/4"	50	NHFS34B	NHFS34Z
7/8"	50	NHFS78B	NHFS78Z
1"	50	NHFS1B	NHFS1Z
1 1/8"	25	NHFS118B	
1 1/4"	25	NHFS114B	
1 1/2"	15	NHFS112B	
2"	10	NHFS2B	
2 1/4"	10	NHFS214B	

**FORTRESS HEX FULL NUTS - UNF**


SIZE	PACK QTY	BLACK	ZINC
1/4"	100	NHFS14FB	NHFS14FZ
5/16"	100	NHFS516FB	NHFS516FZ
3/8"	100	NHFS38FB	NHFS38FZ
7/16"	100	NHFS716FB	NHFS716FZ
1/2"	100	NHFS12FB	NHFS12FZ
9/16"	100	NHFS916FB	NHFS916FZ
5/8"	75	NHFS58FB	NHFS58FZ
3/4"	100	NHFS34FB	
7/8"	50	NHFS78FB	
1 1/8"	25	NHFS118FB	
1 1/4"	25	NHFS114FB	
1 1/2"	25	NHFS112FB	

**FORTRESS NYLOC NUTS - GALVANISED**


SIZE	PACK QTY	CODE
M8	200	NYLM8G
M10	100	NYLM10G
M12	100	NYLM12G
M16	50	NYLM16G
M20	25	NYLM20G

**FORTRESS NYLOC NUTS - ZINC PLATED**


SIZE	PACK QTY	CODE
M3	1000	NYLM3Z
M4	200	NYLM4Z
M5	200	NYLM5Z
M6	200	NYLM6Z
M8	200	NYLM8Z
M10	100	NYLM10Z
M12	100	NYLM12Z
M14	100	NYLM14Z
M16	50	NYLM16Z
M20	50	NYLM20Z
M24	50	NYLM24Z

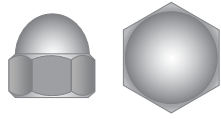
**LOCK NUTS (HALF NUTS) - ZINC**


SIZE	PACK QTY	CODE
M5	EACH	NHLSM5Z
M6	EACH	NHLSM6Z
M8	EACH	NHLSM8Z
M10	EACH	NHLSM10Z
M12	EACH	NHLSM12Z
M16	EACH	NHLSM16Z
M20	EACH	NHLSM20Z

**LOCK NUTS (HALF NUTS) - ZINC - METRIC FINE**

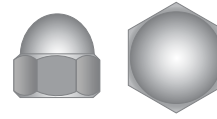

SIZE	PACK QTY	CODE	PITCH
M10	EACH	NHLSMF10Z	1.25
M12	EACH	NHLSMF12Z	1.25
M12	EACH	NHLSMF12Z15	1.5
M14	EACH	NHLSMF14Z	1.5
M16	EACH	NHLSMF16Z	1.5
M18	EACH	NHLSMF18Z	1.5
M20	EACH	NHLSMF20Z	1.5
M24	EACH	NHLSM24FZ	2.0

**FORTRESS DOME NUTS - BRASS**



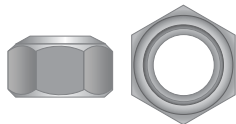
SIZE	PACK QTY	CODE
M3	100	NDM3
M4	100	NDM4
M5	100	NDM5
M6	100	NDM6
M8	100	NDM8
M10	100	NDM10
M12	100	NDM12
M16	100	NDM16

**FORTRESS DOME NUTS - BRASS NICKEL PLATED**



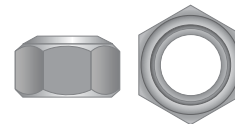
SIZE	PACK QTY	CODE
M3	100	NDM3N
M4	100	NDM4N
M5	100	NDM5N
M6	100	NDM6N
M8	100	NDM8N
M10	100	NDM10N
M12	100	NDM12N
M16	100	NDM16N

**FORTRESS CONE LOCK NUTS - METRIC ZINC PLATED**



SIZE	PACK QTY	CODE	PITCH
M10	100	NCONEM10Z	
M12	100	NCONEM12Z	
M14	50	NCONE14Z	
M16	50	NCONEM16Z	
M16	50	METRIC FINE NCONEMF16Z	1.5
M20	50	NCONE20Z	
M20	50	METRIC FINE NCONEMF20Z	1.5

**FORTRESS CONE LOCK NUTS - IMPERIAL ZINC PLATED**



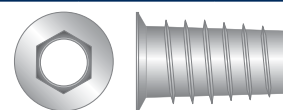
SIZE	PACK QTY	UNC	UNF
3/8"	100	NCONE38CZ	NCONE38FZ
5/16"	100	NCONE516CZ	NCONE516FZ
1/2"	100	NCONE12CZ	NCONE12FZ
5/8"	50	NCONE58CZ	NCONE58FZ
7/8"	50		NCONE78FZ
3/4"	25	NCONE34CZ	NCONE34FZ

**FORTRESS TEE NUTS - ZINC PLATED**



SIZE	PACK QTY	CODE
3/16"	100	NT316Z
1/4"	100	NT14Z
5/16"	100	NT516Z
3/8"	100	NT38Z
M4	100	NTM4Z
M5(15mm od)	100	NTM5Z
M6(18mm od)	100	NTM618Z
M6(20mm od)	100	NTM620Z
M8(19mm od)	100	NTM819Z
M8(22mm od)	100	NTM822Z
M10	100	NTM10Z

**FORTRESS INSERT NUTS - ZINC PLATED**



SIZE	PACK QTY	CODE
5/32 X 10	200	FLANGE INSERT532F
5/16 X 18	200	FLANGE INSERT51618Z
M6 X 13	200	INSERTM613
M6 X 13	200	FLANGE INSERTM613D
M6 X 20	200	INSERTM620
M6 X 20	200	FLANGE INSERTM620F
M8 X 13	200	INSERTM813
M8 X 20	200	FLANGE INSERTM820



**FORTRESS WING NUTS - ZINC PLATED**



SIZE	PACK QTY	CODE
3/16"	200	NW316Z
1/4"	200	NW14Z
5/16"	200	NW516Z
3/8"	200	NW38Z
1/2" BSW	200	NW12WZ
M4	200	NWM4Z
M5	200	NWM5Z
M6	200	NWM6Z
M8	200	NWM8Z
M10	200	NWM10Z
M12	200	NWM12Z

**FORTRESS CAGE NUTS**



SIZE	PACK QTY	PLATE SIZE	CODE
M5	100		NCAGEM5ZC
M6	100	1.0MM	NCAGEM610ZC
M6	100	1.6MM	NCAGEM616ZC
M6	100	3.2MM	NCAGEM632ZC
M8	100		NCAGEM8ZC
M10	100		NCAGEM10ZC

**FORTRESS HEX FULL NUTS - STAINLESS STEEL**



SIZE	PACK QTY	T304 (A2)	T316 (A4)
M2	200	NHFXM2	NHFXM2T
M3	200	NHFXM3	NHFXM3T
M4	200	NHFXM4	NHFXM4T
M5	200	NHFXM5	NHFXM5T
M6	200	NHFXM6	NHFXM6T
M8	200	NHFXM8	NHFXM8T
M10	100	NHFXM10	NHFXM10T
M12	100	NHFXM12	NHFXM12T
M14	EACH	NHFXM14	NHFXM14T
M16	50	NHFXM16	NHFXM16T
M20	50	NHFXM20	NHFXM20T
M24	EACH	NHFXM24	NHFXM24T
M27	EACH	NHFXM27	NHFXM27T
M30	EACH	NHFXM30	NHFXM30T

**FORTRESS NYLOC NUTS - STAINLESS STEEL**



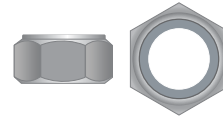
SIZE	PACK QTY	T304 (A2)	T316 (A4)
M2.5	200	NYLXM25	
M3	200	NYLXM3	NYLXM3T
M4	200	NYLXM4	NYLXM4T
M5	200	NYLXM5	NYLXM5T
M6	200	NYLXM6	NYLXM6T
M8	200	NYLXM8	NYLXM8T
M10	100	NYLXM10	NYLXM10T
M12	100	NYLXM12	NYLXM12T
M14	100	NYLXM14	NYLXM14T
M16	50	NYLXM16	NYLXM16T
M20	50	NYLXM20	NYLXM20T
M24	EACH		NYLXM24T
M30	EACH		NYLXM30T

**LOCK NUTS (HALF NUTS) - STAINLESS STEEL**



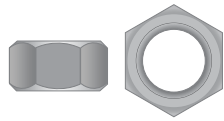
SIZE	PACK QTY	T304 (A2)	T316 (A4)
M5	100	NHLXM5	NHLXM5T
M6	100	NHLXM6	NHLXM6T
M8	100	NHLXM8	NHLXM8T
M10	100	NHLXM10	NHLXM10T
M12	100	NHLXM12	NHLXM12T
M16	50	NHLXM16	NHLXM16T
M20	25	NHLXM20	NHLXM20T
M24	25	NHLXM24	NHLXM24T
M30	25	NHLXM30	NHLXM30T

**FORTRESS NYLOC NUTS - STAINLESS STEEL - IMPERIAL**



SIZE	PACK QTY	T304 (A2)	T316 (A4)
3/16" UNC	100	NYLX316	NYLX316T
1/4" UNC	100	NYLX14	NYLX14T
1/4" UNF	100	NYLX14F	NYLX14FT
5/16" UNC	100	NYLX516	NYLX516T
5/16" UNF	100	NYLX516F	NYLX516FT
3/8" UNC	100	NYLX38	NYLX38T
3/8" UNF	100	NYLX38F	NYLX38FT
7/16 UNC	100	NYLX716	NYLX716T
7/16 UNF	100	NYLX716F	NYLX716FT
1/2" UNC	100	NYLX12C	NYLX12CT
1/2" UNF	100	NYLX12W	NYLX12WT
1/2" BSW	100	NYLX12	NYLX12T
5/8" UNC	50	NYLX58	NYLX58T
3/4" UNC	25	NYLX34	NYLX34T
1" UNC	25	NYLX1	NYLX1T

**FORTRESS HEX FULL NUTS - STAINLESS STEEL - IMPERIAL**



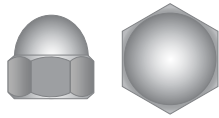
SIZE	PACK QTY	T304 (A2)	T316 (A4)
1/8" UNC	100	NHFX18	
5/32" UNC	100	NHFX532	
3/16" UNC	100	NHFX316	NHFX316T
3/16" UNF	100	NHFX316F	NHFX316FT
1/4" UNC	100	NHFX14	NHFX14T
1/4" UNF	100	NHFX14F	NHFX14FT
5/16" UNC	100	NHFX516	NHFX516T
5/16" UNF	100	NHFX516F	NHFX516FT
3/8" UNC	100	NHFX38	NHFX38T
3/8" UNF	100	NHFX38F	NHFX38FT
7/16" UNC	100	NHFX716	NHFX716T
1/2" UNC	100	NHFX12C	NHFX12CT
1/2" UNF	100	NHFX12F	NHFX12FT
1/2" BSW	100	NHFX12	NHFX12T
5/8" UNC	100	NHFX58	NHFX58T
5/8" UNF	100	NHFX58F	NHFX58FT
3/4" UNC	100	NHFX34	NHFX34T
3/4" UNF	100	NHFX34F	NHFX34FT
7/8" UNC	100	NHFX78	NHFX78T
1" UNC	100	NHFX1	NHFX1T
1 1/8" UNC	100		NHFX118T
1 1/4" UNC	100		NHFX114T

**FORTRESS WING NUTS - STAINLESS STEEL**



SIZE	PACK QTY	T304 (A2)	T316 (A4)
M3	200		NWXM3T
M4	200		NWXM4T
M5	200		NWXM5T
M6	200	NWXM6	NWXM6T
M8	200	NWXM8	NWXM8T
M10	100	NWXM10	NWXM10T
M12	100	NWXM12	NWXM12T
3/16" UNC	200	NWX316	NWX316T
1/4" UNC	200	NWX14	NWX14T
5/16" UNC	200	NWX516	NWX516T
3/8" UNC	200	NWX38	NWX38T
1/2" UNC	100	NWX12C	NWX12CT

**FORTRESS DOME NUTS - STAINLESS STEEL**



SIZE	PACK QTY	T304 (A2)	T316 (A4)
M4	200	NDXM4	NDXM4T
M5	200	NDXM5	NDXM5T
M6	200	NDXM6	NDXM6T
M8	200	NDXM8	NDXM8T
M10	100	NDXM10	NDXM10T
M12	100	NDXM12	NDXM12T
M16	50	NDXM16	NDXM16T
M20	20	NDXM20	NDXM20T
M24	25	NDXM24	NDXM24T

LEADING SOLUTIONS FOR INDUSTRY

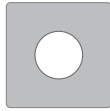
**southco**<sup>®</sup>  
 AUTHORISED DISTRIBUTOR



Panel/Door Latches and Locks    Electronic Access Solutions  
 Quick Access Fasteners    Captive Screws  
 Hinges/Position Control    Handles  
 Inject/Eject Mechanisms    Inserts and Standoffs  
 Marine Deck Hardware

■ POSITION IT   
 ■ SEAL IT   
 ■ CONTROL IT   
 ■ SECURE IT   
 ■ COMPRESS IT

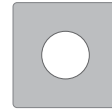
**FORTRESS SQUARE WASHERS - GALVANISED**



SIZE	PACK QTY	CODE
M10 X 40 X 40 X 3	50	WQM10403G
M10 X 50 X 50 X 3	50	WQM10G
M12 X 40 X 40 X 3	50	WQM12403G
M12 X 50 X 50 X 3	50	WQM12G
M16 X 40 X 40 X 3	50	WQM16403
M16 X 50 X 50 X 3	25	WQM16G
M20 X 50 X 50 X 3	EACH	WQM20G
M24 X 50 X 50 X 3	EACH	WQM24G
M30 X 60 X 60 X 3	EACH	WQM30603G

M12 X 40 X 40 X 6	50	WQM12406G
M12 X 50 X 50 X 6	50	WQM12506
M16 X 50 X 50 X 6	EACH	WQM16506G
M16 X 60 X 60 X 6	EACH	WQM16606G
M16 X 80 X 80 X 6	EACH	WQM16806G
M20 X 50 X 50 X 6	EACH	WQM20506G
M20 X 60 X 60 X 6	EACH	WQM20606G
M24 X 80 X 80 X 6	EACH	WQM24806G

**FORTRESS SQUARE WASHERS - STAINLESS STEEL T304**



SIZE	PACK QTY	CODE
M12 X 50 X 50 X 3	50	WQXM1250
M16 X 50 X 50 X 3	50	WQXM1650

**FORTRESS SQUARE WASHERS - STAINLESS STEEL T316**



SIZE	PACK QTY	CODE
M10 X 40 X 40 X 3	50	WQXM1040T
M10 X 50 X 50 X 3	50	WQXM1050T
M10 X 50 X 50 X 5	50	WQXM10505T
M12 X 50 X 50 X 3	50	WQXM1250T
M16 X 50 X 50 X 3	50	WQXM1650T
M20 X 50 X 50 X 3	50	WQXM20T
M16 X 50 X 50 X 6	50	WQXM16506T

**ENGINEERED FASTENERS**



- Captive Screws • Sheetmetal Nuts •
- Studs & Pins • Standoffs •
- Cable Tie Mounts & Hooks •



**FORTRESS ROUND WASHERS - GALVANISED**



SIZE	PACK QTY	CODE
M6 X 19 X 3	100	WM6G
M8 X 16 X 3	200	WM8163G
M8 X 22 X 3	100	WM8G
M10 X 21 X 1.6	200	WM102116G
M10 X 25 X 3	100	WM10G
M10 X 30 X 3	100	WM10303G
M12 X 24 X 1.6	100	WM12416G
M12 X 28 X 3	100	WM12G
M12 X 39 X 6	100	WM1239G
M16 X 30 X 1.6	100	WM163016G
M16 X 34 X 3	100	WM16G
M16 X 38 X 3	50	WM16383G
M20 X 39 X 3	50	WM20G
M24 X 44 X 3	50	WM24443G
M24 X 50 X 3	50	WM24G
M24 X 65 X 6	50	WM24656G
M27 X 60 X 3	50	WM27603G
M30 X 60 X 3	50	WM30G
M33 X 67 X 3	50	WM33673G
M33 X 67 X 6	50	WM33676G

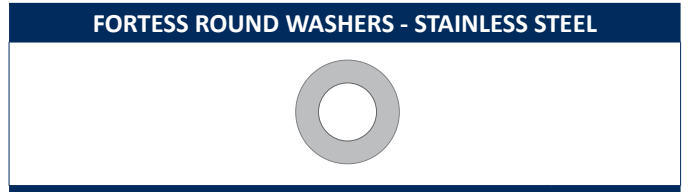
**FORTRESS ROUND WASHERS - ZINC PLATED**



SIZE	PACK QTY	CODE
M3 X 7	200	WM37Z
M3 X 9	200	WM39Z
M4 X 9	200	WM49Z
M4 X 11	200	WM411Z
M5 X 10	200	WM510Z
M5 X 12	200	WM512Z
M5 X 19	200	WM519Z
M5 X 32	200	WM532Z
M6 X 12.5	200	WM6125Z
M6 X 16 X 1.2	200	WM61612Z
M6 X 16 X 1.6	200	WM616Z
M6 X 19 X 1.2	200	WM61912Z
M6 X 19 X 1.6	200	WM61916Z
M6 X 19 X 3	200	WM6193Z
M6 X 22 X 1.2	200	WM622Z
M6 X 32	100	WM632Z
M8 X 16 X 1.2	200	WM81612Z
M8 X 16 X 1.6	200	WM816Z
M8 X 19 X 1.6	200	WM819Z
M8 X 21 X 1.6	200	WM821Z
M8 X 22 X 3	100	WM8223Z
M8 X 32	100	WM832Z
M10 X 21	200	WM1021Z
M10 X 24 X 1.6	100	WM1024Z
M10 X 24 X 2.5	200	WM102425Z
M10 X 25 X 3	100	WM10253Z
M10 X 32	100	WM1032Z
M12 X 24	200	WM1224Z
M12 X 28 X 1.6	100	WM1228Z
M12 X 28 X 3	100	WM12283Z
M12 X 32 X 1.6	100	WM1232Z
M12 X 32 X 3	100	WM12323Z
M14 X 32 X 1.6	100	WM1432Z
M14 X 32 X 3	200	WM143216Z
M16 X 30 X 1.6	200	WM1630Z
M16 X 32 X 1.6	100	WM1632Z
M16 X 34 X 3	50	WM16343Z
M20 X 37 X 1.6	50	WM2037Z
M20 X 37 X 2	50	WM20372Z
M20 X 39 X 3	50	WM20393Z
M24 X 44 X 3	50	WM24443Z
M32 X 44.5 X 3	50	WM324453Z
M33 X 67 X 3	50	WM33673Z



SIZE	PACK QTY	CODE
M6 X 19 X 3	200	WM61914B
M8 X 17	200	WM817B
M10 X 25 X 3	200	WM10253B
M12 X 28 X 3	100	WM12283B
M12 X 32 X 3	100	WM12323B
M14 X 32 X 3	100	WM14323B
M16 X 34 X 3	100	WM16343B
M16 X 38 X 3	100	WM16383B
M20 X 39 X 3	100	WM20393B
M24 X 44 X 3	50	WM24443B
M24 X 50 X 3	50	WM24503B
M24 X 54 X 3	50	WM24543B
M30 X 60 X 3	50	WM30603B
M33 X 67 X 3	50	WM33673B
M36 X 72 X 3	50	WM3723B
M42 X 85 X 3	50	WM43853B



SIZE	PACK QTY	T304 (A2)	T316 (A4)
M4 X 9	200	WXM49	WXM49T
M4 X 11	200	WXM411	WXM411T
M5 X 10	200	WXM510	WXM510T
M5 X 11.5	200	WXM5115	
M5 X 22 X 1.6	100	WXM522	WM522T
M5 X 32	100	WXM532	WXM532T
M6 X 12	200	WXM612	WXM612T
M6 X 16	200	WXM616	WXM616T
M6 X 18	100	WXM618	WXM618T
M6 X 19	100	WXM619	WXM619T
M6 X 32	100	WXM632	WXM632T
M8 X 16	200	WXM816	WXM816T
M8 X 19	200	WXM819	WXM819T
M8 X 22	100	WXM822	WXM822T
M8 X 32	200	WXM832	WXM832T
M10 X 21 X 1.6	200	WXM1021	WXM1021T
M10 X 32	100	WXM1032	WXM1032T
M12 X 24 X 1.6	200	WXM1224	WXM1224T
M12 X 32	100	WXM1232	WXM1232T
M12 X 37 X 3	100		WXM1237T
M16 X 30	100	WXM1630	WXM1630T
M16 X 30 X 3	100		WXM16303T
M20 X 37 X 1.6	100	WXM2037	WXM2037T

QUALITY APPROVED



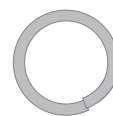
Cutting & Grinding Discs Flap Discs Fibre Discs  
 Flap Wheels Powerfile Belts Wire Wheels & Brushes  
 Grinding Wheels Polishing Compounds

**FORTRESS SPRING WASHERS - GALVANISED**



SIZE	PACK QTY	CODE
M6	100	WSPM6G
M8	100	WSPM8G
M10	100	WSPM10G
M12	100	WSPM12G
M16	100	WSPM16G
M20	100	WSPM20G
M24	100	WSPM24G
M30	100	WSPM30G
M36	100	WSPM36G

**FORTRESS SPRING WASHERS - ZINC PLATED**



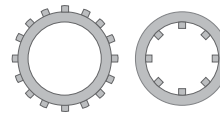
SIZE	PACK QTY	CODE
M3	100	WSPM3Z
M4	100	WSPM4Z
M5	100	WSPM5Z
M6	200	WSPM6Z
M8	200	WSPM8Z
M10	100	WSPM10Z
M12	100	WSPM12Z
M14	100	WSPM14Z
M16	100	WSPM16Z
M18	100	WSPM18Z
M20	100	WSPM20Z
M24	100	WSPM24Z
M30	100	WSPM30Z
M36	100	WSPM36Z

**FORTRESS SPRING WASHERS - STAINLESS STEEL**



SIZE	PACK QTY	T304 (A2)	T316 (A4)
M3	1000	WSPXM3	WSPXM3T
M4	1000	WSPXM4	WSPXM4T
M5	200	WSPXM5	WSPXM5T
M6	200	WSPXM6	WSPXM6T
M8	200	WSPXM8	WSPXM8T
M10	200	WSPXM10	WSPXM10T
M12	100	WSPXM12	WSPXM12T
M16	100	WSPXM16	WSPXM16T
M20	50	WSPXM20	WSPXM20T
M24	50	WSPXM24	WSPXM24T

**FORTRESS LOCKWASHERS - ZINC PLATED**



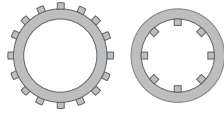
SIZE	PACK QTY	EXTERNAL	IINTERNAL
M3	200	WLM3EZ	WLM3IZ
M4	200	WLM4EZ	WLM4IZ
M5	200	WLM5EZ	WLM5IZ
M6	200	WLM6EZ	WLM6IZ
M8	200	WLM8EZ	WLM8IZ
M10	100	WLM10EZ	WLM10IZ
M12	100	WLM12EZ	WLM12IZ

DESIGNED FOR YOUR INDUSTRY



Full stock range available

**FORTRESS LOCKWASHERS - STAINLESS STEEL T304**



SIZE	PACK QTY	EXTERNAL	INTERNAL
M3	200		WLXM3I
M4	200	WLXM4E	WLXM4I
M5	200	WLXM5E	WLXM5I
M6	200	WLXM6E	WLXM6I
M8	200	WLXM8E	WLXM8I
M10	200	WLXM10E	WLXM10I
M12	200	WLXM12E	WLXM12I

**FORTRESS BRASS CUP WASHERS**



SIZE	PACK QTY	FINISH	CODE
NO 4	100	PLAIN	WC4
NO 4	100	NICKEL	WC4N
NO 6	100	PLAIN	WC6
NO 6	100	NICKEL	WC6N
NO 8	100	PLAIN	WC8
NO 8	100	NICKEL	WC8N
NO 10	100	NICKEL	WC10N
NO 12	100	NICKEL	WC12N

**FORTRESS STARLOCK WASHERS**



SIZE	PACK QTY	CODE
M3 PLAIN	100	WSTM3
M4 PLAIN	100	WSTM4
M5 PLAIN	100	WSTM5
M5 CAPPED	100	WSTM5C
M6 PLAIN	100	WSTM6
M6 CAPPED	100	WSTM6C
M8 PLAIN	100	WSTM8
M8 CAPPED	100	WSTM8C
M10 PLAIN	100	WSTM10
M10 CAPPED	100	WSTM10C
M12 PLAIN	100	WSTM12
M12 CAPPED	100	WSTM12C
3/16 PLAIN	100	WST316
1/4 PLAIN	100	WST14
1/4 CAPPED	100	WST14C
5/16 PLAIN	100	WST516
5/16 CAPPED	100	WST516C
3/8 PLAIN	100	WST38
3/8 CAPPED	100	WST38C
1/2 PLAIN	100	WST12
1/2 CAPPED	100	WST12C

**FORTRESS CUP WASHERS - STAINLESS STEEL T304**



SIZE	PACK QTY	CODE
NO 6	100	WCX6
NO 8	100	WCX8
NO 10	100	WCX10
NO 12	100	WCX12



**FORTRESS RED FIBRE WASHERS - METRIC**


SIZE	PACK QTY	CODE
M3 X 7 X .8	100	WFM378
M4 X 10 X .8	100	WFM4108B
M4 X 11 X .8	100	WFM411132
M4 X 9 X 1.6	100	WFM49116
M4 X 9 X .8	100	WFM49132
M5 X 10 X .8	100	WFM510132
M5 X 10 X 1.6	100	WFM510116
M6 X 12.5 X .8	100	WFM6125132
M6 X 16 X 1.6	100	WFM616116
M8 X 16 X .8	100	WFM8168
M8 X 16 X 1.6	100	WFM81616
M8 X 19 X 1.6	100	WFM81916
M8 X 32 X 1.6	100	WFM832116
M10 X 20 X .8	100	WFM1020132
M10 X 20 X 2	100	WFM10222
M10 X 24 X .8	100	WFM1024132

**HEICO LOCK WASHERS**


SIZE	PACK QTY	CODE
M6	EACH	WWLM6
M8	EACH	WWLM8
M10	EACH	WWLM10
M12	EACH	WWLM12
M14	EACH	WWLM14
M16	EACH	WWLM16
M16 X 30.7	EACH	WWLM16SP
M18	EACH	WWLM18
M20	EACH	WWLM20
M22	EACH	WWLM22
M24	EACH	WWLM24
M30	EACH	WWLM30
7/16"	EACH	WWL716
1/2"	EACH	WWL12
3/4"	EACH	WWL34
1"	EACH	WWL1

**HEICO LOCK WASHERS - STAINLESS**

M6	EACH	WWLXM6
M8	EACH	WWLXM8
M10	EACH	WWLXM10
M12	EACH	WWLXM12
M16	EACH	WWLXM16

**FORTRESS RED FIBRE WASHERS - IMPERIAL**


SIZE	PACK QTY	CODE
1/8 X 5/16 X 1/16	100	WF18516116
1/8 X 5/16 X 1/32	100	WF18516132
1/8 X 1/2 X 1/16	100	WF1812116
1/8 X 1/2 X 1/16	100	WF1838116
5/32 X 5/16 X 1/16	100	WF532516116
5/32 X 5/16 X 1/32	100	WF532516132
5/32 X 3/8 X 1/16	100	WF53238116
5/32 X 3/8 X 1/32	100	WF53238132
3/16 X 3/8 X 1/16	100	WF31638116
3/16 X 3/8 X 1/32	100	WF31638132
3/16 X 1/2 X 1/16	100	WF31612116
3/16 X 7/8 X 1/16	100	WF31678116
1/4 X 1/2 X 1/32	100	WF1412132
1/4 X 1/2 X 1/16	100	WF1412116
1/4 X 5/8 X 1/16	100	WF1458116
5/16 X 5/8 X 1/16	100	WF51658116
5/16 X 1 X 3	100	WF51613
3/8 X 3/4 X 1/32	100	WF3834132
1/2 X 3/4 X 1/16	100	WF1234116
1/2 X 1 X 1.6	100	WF12116
9/16 X 1/18 X 1/16	100	WF916118116
5/8 X 1 X 1/16	100	WF58116

**FORTRESS ROUND EPDM WASHERS**


SIZE	PACK QTY	CODE
M8 X 19	100	WNEOM819
M8 X 22 X 3	100	WNEOM822
M10 X 25 X 3	100	WNEO10253
M10 X 40 X 3	100	WNEO10403
M12 X 50 X 3	100	WNEO12503

**FORTRESS SQUARE EPDM WASHERS**


SIZE	PACK QTY	CODE
M10 X 50 X 3	100	WNEO1050B
M12 X 50 X 3	100	WNEO1250B
M16 X 50 X 3	100	WNEO1650B


**PROFILE ROOFING WASHER - CORRUGATED**



CODE	PACK QTY	DESCRIPTION
WP01	100	CORRUGATED PROFILE WASHER GALV

**\*\*ALSO SUITS TRIMDEK AND STYLELINE PROFILES**


**PROFILE ROOFING WASHER - NC710**



CODE	PACK QTY	DESCRIPTION
WP05	100	NC710 PROFILE WASHER GALV

**\*\*ALSO SUITS TRIMLINE, T-RIB AND MC760 PROFILES**


**PROFILE ROOFING WASHER - BP9082 RIBLINE**



CODE	PACK QTY	DESCRIPTION
WP06	100	BP9082 RIBLINE PROFILE WASHER GALV

**\*\*ALSO SUITS PLUMDEK, TRIMFORM, TRIMCLAD, METCOM 930/100 AND RIBLINE AND V-RIB40 X 35.5**


**PROFILE ROOFING WASHER - LT7**



CODE	PACK QTY	DESCRIPTION
WP07	100	LT7 PROFILE WASHER GALV


**\*\*ALSO SUITS ST7, METRIC, SIX RIB, 6 RIB MET-DEK & V840 X 33**

**NEOPRENE ROOFING WASHERS**

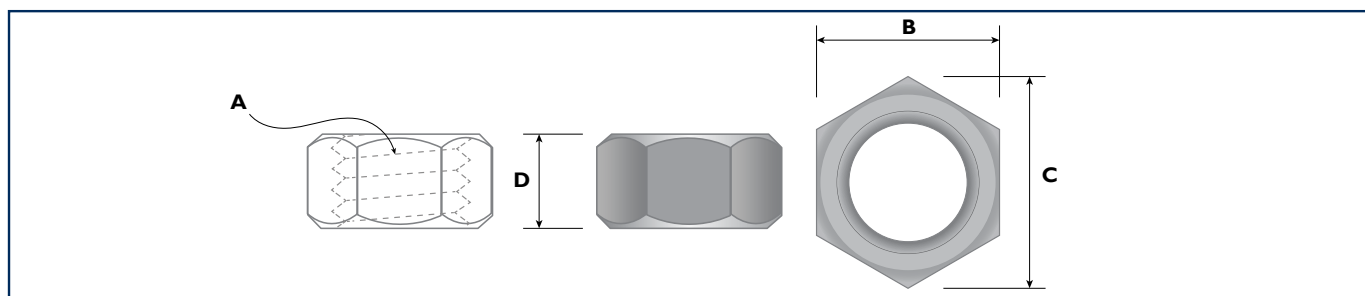


CODE	PACK QTY	DESCRIPTION
WNEO10DEK	200	10G NEO WASHERS
WNEO12DEK	200	12G-14G NEO WASHERS
WNEOKLIP14A	200	12G -14G X 29MM KLIPIKOK DEKSEAL
WNEOSPAN14	200	12G-14G X 35MM DEKSEAL SPANDEK

**BONDED SEALING WASHERS**



CODE	PACK QTY	DESCRIPTION
WNEO10A	200	10G-12G X 17MM NEO BONDED ALUM
WNEO14A	200	12G-14G X 25MM NEO BONDED ALUM
WNEOX5214	200	5.2MM X 14.0 S/S T304 (SUIT 10G)
WNEOX6716	200	6.7MM X 16.0 S/S T304 (SUIT 14G)



**PRODUCT DIMENSIONS  
FOR METRIC HEXAGON NUTS TO AS 1112**

SIZE	(A) PITCH	(B) ACROSS FLATS		(C) ACROSS CORNERS	(D) THICKNESS	
		MAX	MIN	MIN	MAX	MIN
M5	0.8	8	7.78	8.79	4.7	4.4
M6	1	10	9.78	11.05	5.2	4.9
M8	1.25	13	12.73	14.38	6.8	6.4
M10	1.5	16	15.73	17.77	8.4	8.0
M12	1.75	18	17.73	20.03	10.8	10.4
M16	2	24	23.67	26.75	14.8	14.1
M20	3	30	29.16	32.95	18	16.9
M24	3	36	35	39.55	21.5	20.2
M27	3	41	40	45.2	23.8	22.5
M30	4	46	45	50.85	25.6	24.3
M33	4	50	49	55.37	28.7	27.4

**PRODUCT DIMENSIONS  
FOR IMPERIAL HEXAGON NUTS TO AS 2465**

DIA	TPI		(B) ACROSS FLATS		(C) ACROSS CORNERS		(D) THICKNESS	
	UNC	UNF	MAX	MIN	MAX	MIN	MAX	MIN
1/4"	20	28	0.438	0.428	0.505	0.488	0.226	0.212
5/16"	18	24	0.5	0.489	0.577	0.557	0.273	0.258
3/8"	16	24	0.562	0.551	0.65	0.628	0.337	0.32
7/16"	14	20	0.688	0.675	0.794	0.768	0.385	0.365
1/2"	13	20	0.75	0.736	0.866	0.84	0.448	0.427
9/16"	12	18	0.875	0.861	1.01	0.982	0.496	0.473
5/8"	11	18	0.938	0.922	1.083	1.051	0.559	0.535
3/4"	10	16	1.125	1.088	1.299	1.24	0.665	0.617
7/8"	9	14	1.312	1.269	1.516	1.447	0.776	0.724
1"	8	12	1.5	1.45	1.732	1.653	0.887	0.831
1.1/8"	7	12	1.688	1.631	1.949	1.859	0.999	0.939
1.1/4"	7	12	1.875	1.812	2.165	2.066	1.094	1.03
1.3/8"	6	12	2.062	1.994	2.382	2.273	1.206	1.138
1.1/2"	6	12	2.25	2.175	2.598	2.48	1.371	1.245
1.3/4"	5		2.625	2.565	30.31	2.893	1.53	1.47
2"	4.5		3	2.94	3.464	3.306	1.754	1.684



100% NZ Owned & Operated