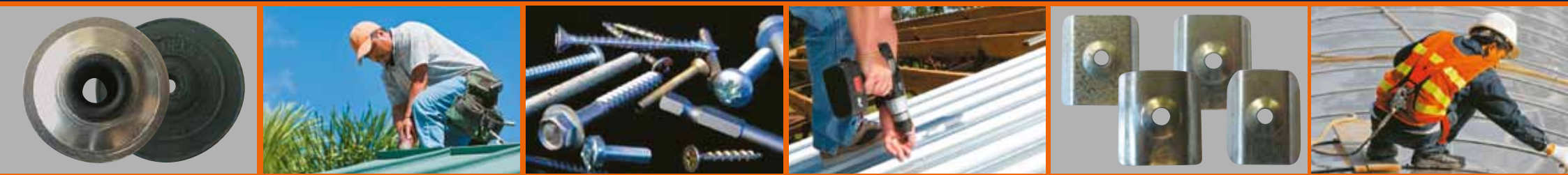




Roofing Fasteners Range



m_sl
manufacturing suppliers ltd.

msl manufacturing suppliers ltd.



MSL is New Zealand's premier fastener supplier with branches nationwide. Established in 1980, it has become the largest distributor of fasteners, including bolts & nuts, rivets, coach screws, machine screws, washers, threaded rods, self drilling screws, chipboard screws, hinges and socket products – in all materials and finishes.

All self drilling screws are manufactured strictly to international standards including AS/NZ 3566. All screws are made with a distinctive “F4” head marking, recognised as the “Fortress Class 4” to meet the harshest of NZ environmental conditions.



Roofing Range

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Roofing Fasteners Specifications

FASTENER DESCRIPTION

FOR EXAMPLE

12-14x55HWF

① ② ③ ④

- ① The first number is the fastener gauge.
- ② The second number is the number of threads per inch – coarse or fine.
- ③ The third number is the length of the fastener – the “working area”.
- ④ HWF: Hex Washer Face – refers to the type of head most common, incorporating a built in washer under the hex.

FASTENER GAUGE

The fastener gauge is the major diameter or outside thread thickness of the screw.

- 6g = 3.5mm
- 8g = 4.2mm
- 10g = 4.8mm
- ① 12g = 5.5mm
- 14g = 6.3mm

FASTENER LENGTH

- ③ The fastener is measured as the total length of penetration or the “working area”. Hex, pan and wafer heads measure from under the head to the tip of the screw. Countersunk, bugle and self embedding are all measured from the top of the head to the tip.

SELF DRILLING SCREW POINTS

METAL SELF DRILLERS

Sometimes referred to as Teks, SDS or SDM. Used for drilling into thin steel usually from 1.5mm to 6.4mm thick.

TYPE 17

Sharp point with a cut in the tip flutes specifically for drilling into timber or through thin steel up to 0.75mm. Ideal for screwing roofing to timber frames, purlins or battens.

WING SCREWS

Metal self drilling screws with added wings are used to penetrate timber and clear a pilot hole first before breaking off as the screw goes into a steel substrate. Ideal for fixing ply to steel frames.

SUPADRIVE®

Fortress trade marked for universal use where the screws will drill into and through some steel and timber. Ideal for roofing and cladding applications and fixing to steel or timber profiles. The shortened self drilling point allows drilling through steel up to 1.9mm thick.

SELF DRILLING TEST RESULTS

	AS3566 MINIMUM AXIAL FORCE FOR WITHDRAWAL	TEST RESULT kN
Self Drilling to timber	2.8	4.14
Self Drilling to steel	2.8	5.01
Supadrive® Self Drilling to timber	2.8	4.14
Supadrive® Self Drilling to steel	2.8	8.58

Tested by an independent New Zealand Laboratory. All screws conformed to AS3566-1-2002



*Fortress Roofing Fasteners
carry a 15 year warranty*

Roofing Fasteners Specifications (CONTINUED)

CORROSION RESISTANCE

All Fortress Roofing Fasteners are coated with Class 4 Mechanical plated zinc/tin composition, produced in Australia to meet **AS3566 Part 2-2002**.

CLASSIFICATION AND DESIGNATION OF CORROSION RESISTANCE

CLASS	ATMOSPHERE OF INTENDED USE
1	General use in internal application.
2	General use and external where moderate condensation occurs.
3	External use in mild, or moderate industrial areas. Corrosivity category C2 and C3 in accordance with ISO 9223.
4	External use in severe marine environment. Corrosivity category C4 classified in accordance with ISO 9223.

EXTRACT FROM AS3566:2-2002

REQUIREMENTS FOR ZINC AND TIN ZINC COATED FASTENERS

CORROSION RESISTANCE CLASS	MINIMUM POROSITY RATING	MINIMUM THICKNESS (UM)	COATING TYPE
2	6	17	Mech plated zinc
3	8	25	Mech plated zinc/tin
3	8	40	Mech plated zinc
4	8	45	Mech plated zinc/tin

GUARANTEE

All Fortress Roofing Fasteners used for roofing and cladding applications have been coated to Class 4 specifications as shown in AS3566.2-2002.

All roofing fasteners carry a 15 year warranty, however a roof and its fasteners require regular cleaning to help prevent damage and build up of corrosive environmental matter. It is recommended that manual washing be performed every 3 months for high risk areas such as coastal regions.

For further information or assistance please ask your local Fortress Fasteners representative.

COLOUR RANGE

All Fortress Roofing Fasteners are available in the different colours offered by steel manufacturers in New Zealand, such as Colorsteel, Diamond and BHP.

EXAMPLES: Thunder Grey, Smokey, Maple, Titania, Ironsand, Karaka, Lignite, Grey Friars, Permanent Green, Desert Sand, Bone White, Gull Grey.



*Fortress Roofing Fasteners
carry a 15 year warranty*

Sealing Washer Range

FORTRESS FASTENERS ARE DISTRIBUTORS OF:



DEKS washers offer greater thickness and secure sealing.



DEKSEAL ENGINEERED

FULLY MOULDED

A customised range designed to suit specific materials including metal, fibreglass and plastic – each washer has been designed to ensure weather-tightness of specific roofing systems.

Engineered for precision – for a consistent fit and performance.

Weather-tight fit every time – designed to stay strong.

Four styles – to suit a range of applications.

- 2 sealing locations
- Adequate cushioning
- Wind-uplift resistance
- Allows slippage for sheet movement
- NON-CONDUCTIVE
- Eliminates metal to metal contact



NEO

FLUTED AND SMOOTH

Offering both consistency and longevity, Neo washers come in 2 styles to suit your assembly process and application needs. The blue marking on the washer ensures it is authentic.

NON-CONDUCTIVE – low carbon prevents corrosion problems.

Superior quality EPDM – made to last.

Fast assembly – quick to fit, stays in place during transportation.

UV and ozone resistant – maximum life span in harsh environments.

SMOOTH

- Ideal for machine assembly
- Consistent fit every time
- Available in 8, 10, 12 and 14g

FLUTED

- Ideal for machine and hand assembly
- Consistent, tight fit every time
- Easy to fit – stays in place



DEKFAST MULTI-SEAL

METAL BACKED

A unique washer design that forms a seal against the washer face of the fastener as well as the roof sheet. The design is self-aligning ensuring that even if the fastener is driven at an angle, the washer seals effectively in all 4 locations.

Extra strength – metal encapsulated in EPDM for real strength.

Four sealing points – unique design gives a perfect seal.

No distortion – engineered to distribute the load

- Wide size range
- Imperfect installation – perfect seal
- Improved cushioning
- Allows slippage for sheet movement
- High vibrational resistance
- No distortion
- 4 sealing locations
- Improved wind-lift resistance
- Eliminates metal to metal contact
- NON-CONDUCTIVE

Hex Head Fasteners with Neo washer

For fixing to timber

CLASS 4

PART NO.	DESCRIPTION	SCREW GAUGE	THREADS PER INCH	LENGTH OF SCREW	WASHER TYPE	QUANTITY PER PACK
TT1225NC4	12 x 25 HEX WF T17 W/NEO CL:4	12	11	25	Neo	200/1000
TT1235NC4	12 x 35 HEX WF T17 W/NEO CL:4	12	11	35	Neo	200/1000
TT1240NC4	12 x 40 HEX WF T17 W/NEO CL:4	12	11	40	Neo	200/1000
TT1245NC4	12 x 45 HEX WF T17 W/NEO CL:4	12	11	45	Neo	200/1000
TT1250NC4	12 x 50 HEX WF T17 W/NEO CL:4	12	11	50	Neo	200/1000
TT1255NC4	12 x 55 HEX WF T17 W/NEO CL:4	12	11	55	Neo	200/1500
TT1265NC4	12 x 65 HEX WF T17 W/NEO CL:4	12	11	65	Neo	100/1000
TT1265NEO14A	12 x 65 HEX WF T17 W/BONDED WASHER CL:4	12	11	65	25mm Bonded	100/500
TT1275NC4	12 x 75 HEX WF T17 W/NEO CL:4	12	11	75	Neo	100/500
TT1425NC4	14 x 25 HEX WF T17 W/NEO CL:4	14	10	25	Neo	100/500
TT1450NC4	14 x 50 HEX WF T17 W/NEO CL:4	14	10	50	Neo	100/500
TT1465NC4	14 x 65 HEX WF T17 W/NEO CL:4	14	10	65	Neo	100/500
TT1475NC4	14 x 75 HEX WF T17 W/NEO CL:4	14	10	75	Neo	100/500
TT1490NC4	14 x 90 HEX WF T17 W/NEO CL:4	14	10	90	Neo	100/500
TT14100NC4	14 x 100 HEX WF T17 W/NEO CL:4	14	10	100	Neo	100/500
TT14115NC4	14 x 115 HEX WF T17 W/NEO CL:4	14	10	115	Neo	100/500
TT14125NC4	14 x 125 HEX WF T17 W/NEO CL:4	14	10	125	Neo	100/500
TT14150NC4	14 x 150 HEX WF T17 W/NEO CL:4	14	10	150	Neo	100/500
BITHEXSOC516	5/16 x 65 HEX SOCKET BIT	-	-	-	-	1
BITHEXSOC516150	5/16 x 150 HEX SOCKET BIT	-	-	-	-	1
BITHEXSOC38	3/8 x 65 HEX SOCKET BIT	-	-	-	-	1
BITHEXSOC38150	3/8 x 150 HEX SOCKET BIT	-	-	-	-	1



Supadrive® 12g Plus Fastener with Neo washer

For fixing to steel or timber

CLASS 4

PART NO.	DESCRIPTION	SCREW GAUGE	THREADS PER INCH	LENGTH OF SCREW	WASHER TYPE	QUANTITY PER PACK
SD1255NC4	12g Plus-13 x 55 HEX W/F SUPADRIVE W/NEO	12 Plus	13	55	Neo	200/1500
SD1265NC4	12g Plus-13 x 65 HEX W/F SUPADRIVE W/NEO	12 Plus	13	65	Neo	100/1000
BITHEXSOC516	5/16 x 65 HEX SOCKET BIT	-	-	-	-	1
BITHEXSOC516150	5/16 x 150 HEX SOCKET BIT	-	-	-	-	1

Supadrive®

Fortress trade marked for universal use where the screws will drill into and through some steel and timber. Ideal for roofing and cladding applications and fixing to steel or timber profiles. The shortened self drilling point allows drilling through steel up to 1.9mm thick.



Self Drilling Fasteners with optional Neo washer

For fixing to steel

CLASS 4

PART NO.	DESCRIPTION	SCREW GAUGE	THREADS PER INCH	LENGTH OF SCREW	WASHER TYPE	QUANTITY PER PACK
TK812C4	8-18 x 12 HEX W/F TEK NO NEO CL:4	8	18	12	-	200
TK816C4	8-18 x 16 HEX W/F TEK NO NEO CL:4	8	18	16	-	200
TK1016NC4	10-16 x 16 HEX W/F TEK WITH NEO CL:4	10	16	16	Neo	200
TK1025NC4	10-16 x 25 HEX W/F TEK WITH NEO CL:4	10	16	25	Neo	200
TK122024NC4	12-24 x 20 HEX W/F TEK WITH NEO CL:4	12	24	20	Neo	200/1000
TK1220NC4	12-14 x 20 HEX W/F TEK WITH NEO CL:4	12	14	20	Neo	200/1000
TK122510NC4	12-14 x 25 HEX W/F METAL TEK WITH NEO CL:4 (10g head) CLADDING	12	14	25	Neo	200/1000
TK122524NC4	12-24 x 25 HEX W/F TEK WITH NEO CL:4	12	24	25	Neo	200
TK1225NC4	12-14 x 25 HEX W/F TEK WITH NEO CL:4	12	14	25	Neo	200
TK1235NC4	12-14 x 35 HEX W/F TEK WITH NEO CL:4	12	14	35	Neo	200
TK1245NC4	12-14 x 45 HEX W/F TEK WITH NEO CL:4	12	14	45	Neo	200
TK1255NC4	12-14 x 55 HEX W/F TEK WITH NEO CL:4	12	14	55	Neo	200/1500
TK1265NC4	12-14 x 65 HEX W/F TEK WITH NEO CL:4	12	14	65	Neo	100/1000
TK1275NC4	12-14 x 75 HEX W/F TEK WITH NEO CL:4	12	14	75	Neo	100/1000



Self Drilling Fasteners with optional Neo washer (continued)

For fixing to steel

CLASS 4

PART NO.	DESCRIPTION	SCREW GAUGE	THREADS PER INCH	LENGTH OF SCREW	WASHER TYPE	QUANTITY PER PACK
TK1422NC4	14-20 x 22 HEX W/F TEK WITH NEO CL:4	14	20	22	Neo	200
TK1475NC4	14-10 x 75 HEX W/F TEK WITH NEO CL:4	14	10	75	Neo	100
TK1490NC4	14-10 x 90 HEX W/F TEK WITH NEO CL:4	14	10	90	Neo	100
TK1495NC4	14-10 x 95 HEX W/F TEK WITH NEO CL:4	14	10	95	Neo	100
TK14115NC4	14-10 x 115 HEX W/F TEK WITH NEO CL:4	14	10	115	Neo	100
TK14135NC4	14-20 x 135 HEX W/F TEK WITH NEO CL:4	14	20	135	Neo	100
TK14150NC4	14-10 x 150 HEX W/F TEK WITH NEO CL:4	14	10	150	Neo	100
TK14175NC4	14-10 x 175 HEX W/F TEK WITH NEO CL:4	14	10	175	Neo	100
TK14250NC4	14-10 x 250 HEX W/F TEK WITH NEO CL:4	14	10	250	Neo	100
BITHEXSOC14	1/4 x 45 HEX SOCKET BIT	8	-	-	-	1
BITHEXSOC516	5/16 x 65 HEX SOCKET BIT	10, 12	-	-	-	1
BITHEXSOC516150	5/16 x 150 HEX SOCKET BIT	10, 12	-	-	-	1
BITHEXSOC38	3/8 x 65 HEX SOCKET BIT	14	-	-	-	1
BITHEXSOC38150	3/8 x 150 HEX SOCKET BIT	14	-	-	-	1



Countersunk Wing Fasteners

For fixing through timber to steel

CLASS 4

PART NO.	DESCRIPTION	SCREW GAUGE	THREADS PER INCH	LENGTH OF SCREW	QUANTITY PER PACK
TKCWQ1035C4	10-16 x 35 CSK SQUARE WING TEK CL:4	10	16	35	200
TKCWQ1045C4	10-16 x 45 CSK SQUARE WING TEK CL:4	10	16	45	200
TKCWQ1050C4	10-16 x 50 CSK SQUARE WING TEK CL:4	10	16	50	100
TKCWQ1075C4	10-16 x 75 CSK SQUARE WING TEK CL:4	10	16	75	100
BITQ250F	No 2 x 50 SQUARE DRIVE BIT	-	-	-	1
BITQ275F	No 2 x 75 SQUARE DRIVE BIT	-	-	-	1
BITQ290F	No 2 x 90 SQUARE DRIVE BIT	-	-	-	1
BITQ2150F	No 2 x 150 SQUARE DRIVE BIT	-	-	-	1



Bugle Head Batten Fasteners

For fixing to timber

CLASS 4

PART NO.	DESCRIPTION	SCREW GAUGE	THREADS PER INCH	LENGTH OF SCREW	QUANTITY PER PACK
TTB1450C4	14 x 50 BUGLE HEAD BATTEN SCREWS T17 CL:4	14	10	50	100
TTB1475C4	14 x 75 BUGLE HEAD BATTEN SCREWS T17 CL:4	14	10	75	100
TTB14100C4	14 x 100 BUGLE HEAD BATTEN SCREWS T17 CL:4	14	10	100	100
TTB14120C4	14 x 120 BUGLE HEAD BATTEN SCREWS T17 CL:4	14	10	200	100
TTB14125C4	14 x 125 BUGLE HEAD BATTEN SCREWS T17 CL:4	14	10	125	100
TTB14150C4	14 x 150 BUGLE HEAD BATTEN SCREWS T17 CL:4	14	10	150	100
BITHEX550	5 x 50 HEX DRIVE BIT	-	-	-	1



Wafer Head Square Drive Fasteners

For fixing to steel

CLASS 4

PART NO.	DESCRIPTION	SCREW GAUGE	THREADS PER INCH	LENGTH OF SCREW	QUANTITY PER PACK
TKWQ1016C4	10-16 x 16 WAFER HEAD SQUARE TEK CL:4	10	16	16	1000
TKWQ1022C4	10-16 x 22 WAFER HEAD SQUARE TEK CL:4	10	16	22	1000
TKWQ1025C4	10-16 x 25 WAFER HEAD SQUARE TEK CL:4	10	16	25	1000
TKWQ1030C4	10-16 x 30 WAFER HEAD SQUARE TEK CL:4	10	16	30	1000
BITQ250F	No 2 x 50 SQUARE DRIVE BIT	-	-	-	1
BITQ275F	No 2 x 75 SQUARE DRIVE BIT	-	-	-	1
BITQ290F	No 2 x 90 SQUARE DRIVE BIT	-	-	-	1
BITQ2150F	No 2 x 150 SQUARE DRIVE BIT	-	-	-	1



Profile Washers

Available to meet your requirements.



Hand Tools

Full range of specialist tools available.



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Each of our branches has a fully stocked warehouse.

Local knowledge and personal service means that you can talk with someone who knows your business and your working environment.

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Or contact your local account manager

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Carters and ITM also stock Fortress Fasteners.

We offer charge backs to your local Carters or ITM account.