



**NORD-LOCK®**

**Stock List 2011**



# Hobson Engineering Co. Pty. Ltd

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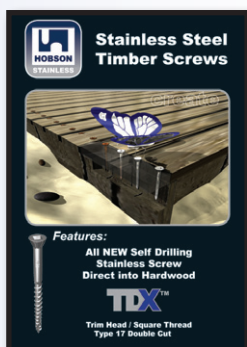
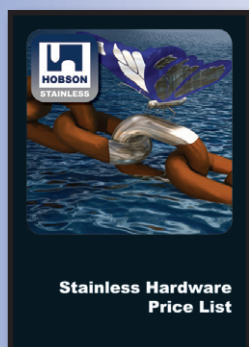
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# NORD-LOCK® Washer

ZINC FLAKE COATED (DELTA PROTEKT®)



## NORD-LOCK® STANDARD WASHER THROUGH HARDENED STEEL ZINC FLAKE COATED (DELTA PROTEKT®)

Part	Nord-Lock Part	Size	OD	ID	Thk	Pack	Pack Wgt	Stock
			mm/inch	mm/inch	mm/inch		(Kg)	
WNHTDDM03	NL3	M3	7.0	3.4	1.8	200	0.06	✓
WNHTDDM035	NL3,5	M3.5	7.6	3.9	1.8	200	0.08	✓
WNHTDDM04	NL4	M4	7.6	4.4	1.8	200	0.08	✓
WNHTDDM05	NL5	M5	9.0	5.4	1.8	200	0.10	✓
WNHTDDM06	NL6	M6	10.8	6.5	1.8	200	0.14	✓
WNHTDD025	NL1/4"	1/4"	0.453	0.283	0.071	200	0.16	✓
WNHTDDM08	NL8	M8	13.5	8.7	2.5	200	0.30	✓
WNHTDD037	NL3/8"	3/8"	0.654	0.406	0.098	200	0.46	✓
WNHTDDM10	NL10	M10	16.6	10.7	2.5	200	0.44	✓
WNHTDDM11	NL11	M11	18.5	11.4	2.5	200	0.58	✓
WNHTDDM12	NL12	M12	19.5	13.0	2.5	200	0.58	✓
WNHTDD050	NL1/2"	1/2"	0.768	0.531	0.098	200	0.54	✓
WNHTDDM14	NL14	M14	23.0	15.2	3.4	100	0.56	✓
WNHTDDM16	NL16	M16	25.4	17.0	3.4	100	0.67	✓
WNHTDDM18	NL18	M18	29.0	19.5	3.4	100	0.85	✓
WNHTDD075	NL3/4"	3/4"	1.209	0.787	0.134	100	1.05	✓
WNHTDDM20	NL20	M20	30.7	21.4	3.4	100	0.93	✓
WNHTDDM22	NL22	M22	34.5	23.4	3.4	100	1.29	✓
WNHTDDM24	NL24	M24	39.0	25.3	3.4	100	1.68	✓
WNHTDD100	NL1"	1"	1.535	1.098	0.134	100	1.53	✓
WNHTDDM27	NL27	M27	42.0	28.4	5.8	50	1.65	✓
WNHTDDM30	NL30	M30	47.0	31.4	5.8	50	2.03	✓
WNHTDDM33	NL33	M33	48.5	34.4	5.8	25	0.99	✓
WNHTDDM36	NL36	M36	55.0	37.4	6.6	25	1.40	✓
WNHTDDM39	NL39	M39	58.5	40.4	6.6	25	1.57	✓
WNHTDDM42	NL42	M42	63.0	43.2	6.6	25	1.87	✓
WNHTDDM45	NL45	M45	70.0	46.2	7.0	25	2.55	✓
WNHTDDM48	NL48	M48	75.0	49.6	7.0	25	3.00	✓
WNHTDDM52	NL52	M52	80.0	53.6	7.0	25	3.25	✓
WNHTDDM56	NL56	M56	85.0	59.1	7.0	10	1.35	✓
WNHTDDM64	NL64	M64	90.0	67.1	7.0	10	1.67	✓



# NORD-LOCK® SP Washer

ZINC FLAKE COATED (DELTA PROTEKT®)

## NORD-LOCK® LARGE OD WASHER THROUGH HARDENED STEEL ZINC FLAKE COATED (DELTA PROTEKT®)

Part	Nord-Lock Part	Size	OD	ID	Thk	Pack	Pack Wgt	Stock
			mm/inch	mm/inch	mm/inch		(Kg)	
WNHTLDM035	NL3,5sp	M3.5	9.0	3.9	1.8	200	0.12	✓
WNHTLDM04	NL4sp	M4	9.0	4.4	1.8	200	0.12	✓
WNHTLDM05	NL5sp	M5	10.8	5.4	1.8	200	0.22	✓
WNHTLDM06	NL6sp	M6	13.5	6.5	2.5	200	0.40	✓
WNHTLD025	NL1/4"sp	1/4"	0.531	0.283	0.098	200	0.36	✓
WNHTLDM08	NL8sp	M8	16.6	8.7	2.5	200	0.56	✓
WNHTLD037	NL3/8"sp	3/8"	0.827	0.406	0.098	200	0.96	✓
WNHTLDM10	NL10sp	M10	21.0	10.7	2.5	200	0.94	✓
WNHTLDM12	NL12sp	M12	25.4	13.0	3.4	100	0.91	✓
WNHTLD050	NL1/2"sp	1/2"	1.000	0.531	0.134	100	0.90	✓
WNHTLDM14	NL14sp	M14	30.7	15.2	3.4	100	1.41	✓
WNHTLDM16	NL16sp	M16	30.7	17.0	3.4	100	1.28	✓
WNHTLDM18	NL18sp	M18	34.5	19.5	3.4	100	1.58	✓
WNHTLD075	NL3/4"sp	3/4"	1.535	0.787	0.134	100	2.20	✓
WNHTLDM20	NL20sp	M20	39.0	21.4	3.4	100	2.03	✓
WNHTLDM22	NL22sp	M22	42.0	23.4	4.6	50	1.66	✓
WNHTLDM24	NL24sp	M24	48.5	25.3	4.6	50	2.26	✓
WNHTLD100	NL1"sp	1"	1.909	1.098	0.181	50	2.10	✓
WNHTLDM27	NL27sp	M27	48.5	28.4	5.8	25	1.35	✓
WNHTLDM30	NL30sp	M30	58.5	31.4	6.6	25	2.24	✓
WNHTLDM33	NL33sp	M33	58.5	34.4	6.6	25	2.08	✓
WNHTLDM36	NL36sp	M36	63.0	37.4	6.6	25	2.29	✓



## NORD-LOCK® STANDARD WASHER ASSORTMENT KIT THROUGH HARDENED STEEL ZINC FLAKE COATED (DELTA PROTEKT®)

Part	Nord-Lock Part	Size	Pack	Stock
WNXAHT	NL6-NL20	M6, M8, M10, M12, M16, M20	1	✓





# NORD-LOCK® Washer

316L Stainless



## NORD-LOCK® STANDARD WASHER 316L STAINLESS STEEL SURFACE HARDENED

Part	Nord-Lock Part	Size	OD	ID	Thk	Pack	Pack Wgt (Kg)	Stock
			mm/inch	mm/inch	mm/inch			
WN16DPM03	NL3ss	M3	7.0	3.4	2.2	200	0.08	✓
WN16DPM035	NL3,5ss	M3.5	7.6	3.9	2.2	200	0.08	✓
WN16DPM04	NL4ss	M4	7.6	4.4	2.2	200	0.08	✓
WN16DPM05	NL5ss	M5	9.0	5.4	2.2	200	0.12	✓
WN16DPM06	NL6ss	M6	10.8	6.5	2.2	200	0.18	✓
WN16DP025	NL1/4"ss	1/4"	0.453	0.283	0.087	200	0.18	✓
WN16DPM08	NL8ss	M8	13.5	8.7	2.0	200	0.24	✓
WN16DP037	NL3/8"ss	3/8"	0.654	0.406	0.079	200	0.38	✓
WN16DPM10	NL10ss	M10	16.6	10.7	2.0	200	0.36	✓
WN16DPM11	NL11ss	M11	18.5	11.4	2.2	200	0.52	✓
WN16DPM12	NL12ss	M12	19.5	13.0	2.0	200	0.46	✓
WN16DP050	NL1/2"ss	1/2"	0.768	0.531	0.079	200	0.48	✓
WN16DPM14	NL14ss	M14	23.0	15.2	3.0	100	0.49	✓
WN16DPM16	NL16ss	M16	25.4	17.0	3.0	100	0.59	✓
WN16DPM18	NL18ss	M18	29.0	19.5	3.2	100	0.80	✓
WN16DP075	NL3/4"ss	3/4"	1.209	0.787	0.126	100	0.96	✓
WN16DPM20	NL20ss	M20	30.7	21.4	3.0	100	0.82	✓
WN16DPM22	NL22ss	M22	34.5	23.4	3.2	100	1.23	✓
WN16DPM24	NL24ss	M24	39.0	25.3	3.2	100	1.52	✓
WN16DP100	NL1"ss	1"	1.535	1.098	0.126	100	1.42	✓
WN16DPM27	NL27ss	M27	42.0	28.4	6.8	50	1.73	✓
WN16DPM30	NL30ss	M30	47.0	31.4	6.8	50	2.22	✓
WN16DPM33	NL33ss	M33	48.5	34.4	6.8	25	1.06	✓
WN16DPM36	NL36ss	M36	55.0	37.4	6.8	25	1.49	✓
WN16DPM39	NL39ss	M39	58.5	40.4	6.8	25	1.69	✓
WN16DPM42	NL42ss	M42	63.0	43.2	6.8	25	1.99	✓



## NORD-LOCK® STANDARD WASHER ASSORTMENT KIT 316L STAINLESS STEEL SURFACE HARDENED

Part	Nord-Lock Part	Size	Pack	Stock
WNXASS	NL6-NL20ss	M6, M8, M10, M12, M16, M20	1	✓

# NORD-LOCK® SP Washer

316L Stainless

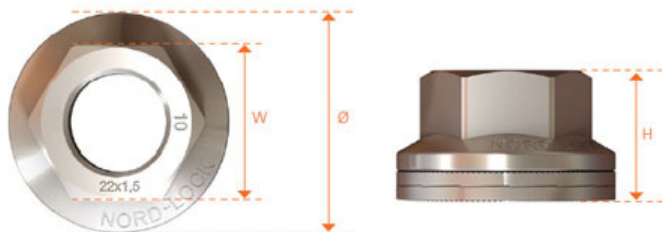
## NORD-LOCK® LARGE OD WASHER 316L STAINLESS STEEL SURFACE HARDENED

Part	Nord-LOCK Part	Size	OD (mm)	ID (mm)	Thk (mm)	Pack	Pack Wgt (Kg)	Stock
WN16LPM035	NL3,5spss	M3.5	9.0	3.9	2.2	200	0.14	✓
WN16LPM04	NL4spss	M4	9.0	4.4	2.2	200	0.14	✓
WN16LPM05	NL5spss	M5	10.8	5.4	2.2	200	0.22	✓
WN16LPM06	NL6spss	M6	13.5	6.5	2.0	200	0.32	✓
WN16LP025	NL1/4"spss	1/4"	0.531	0.283	0.087	200	0.30	✓
WN16LPM08	NL8spss	M8	16.6	8.7	2.0	200	0.44	✓
WN16LP037	NL3/8"spss	3/8"	0.827	0.406	0.079	200	0.76	✓
WN16LPM10	NL10spss	M10	21.0	10.7	2.0	200	0.74	✓
WN16LPM12	NL12spss	M12	25.4	13.0	3.0	100	0.82	✓
WN16LP050	NL1/2"spss	1/2"	1.000	0.531	0.126	100	0.80	✓
WN16LPM14	NL14spss	M14	30.7	15.2	3.2	100	1.31	✓
WN16LPM16	NL16spss	M16	30.7	17.0	3.2	100	1.13	✓
WN16LPM18	NL18spss	M18	34.5	19.5	3.2	100	1.56	✓
WN16LP075	NL3/4"spss	3/4"	1.535	0.787	0.126	100	2.10	✓
WN16LPM20	NL20spss	M20	39.0	21.4	3.2	100	2.06	✓
WN16LPM22	NL22spss	M22	42.0	23.4	3.2	50	1.12	✓
WN16LPM24	NL24spss	M24	48.5	25.3	3.2	50	1.75	✓
WN16LP100	NL1"spss	1"	1.909	1.098	0.126	50	1.61	✓
WN16LPM27	NL27spss	M27	48.5	28.4	6.8	25	1.46	✓
WN16LPM30	NL30spss	M30	58.5	31.4	6.8	25	2.38	✓



## NORD-LOCK® WHEEL NUT M22 FINE PITCH CLASS 10 ZINC FLAKE COATED (DELTA PROTEKT®)

Part	Nord-LOCK Part	Size	AF (mm)	Washer Ø (mm)	Height (mm)	Pack	Pack Wgt (Kg)	Stock
NL10DNM22	NLWN	M22-1.5	32	46	27	20	3.40	✓



**ZINC FLAKE COATING DELTA PROTEKT®**

APPLIED ON NORD-LOCK STEEL WASHERS

<b>ENVIRONMENTAL COMPLIANCE</b>	<ul style="list-style-type: none"> <li>· ELV compliant (EU directive 2000/53/EC)</li> <li>· RoHS compliant (EU directive 2002/95/EC)</li> </ul>
<b>COATING SPECIFICATION</b>	<p>Zinc and aluminium based inorganic surface coating:</p> <ul style="list-style-type: none"> <li>· Base coat KL 100 (according to EN ISO 10683). Silvery / matt grey colour.</li> <li>· Top coat VH 302 GZ. A water based and transparent seal.</li> </ul>
<b>APPLICATION TECHNIQUE</b>	<p>Dip spin</p> <p><i>The method offers an evenly applied micro layer. Furthermore; the use of a non-electrolytically applied surface treatment eliminates the risk of hydrogen embrittlement. After dip spin, the washers are heated in order to cure the coating.</i></p>
<b>CORROSION RESISTANCE</b>	<p>Endures a minimum of 600 hours of salt spray test in accordance with ISO 9227 and DIN 50021.</p> <p><i>The coating provides cathodic protection and also a barrier effect.</i></p>
<b>TEMPERATURE TOLERANCE</b>	<p>Temperatures above 180°C affect the corrosion resistance according to Dörken.</p>
<b>REGARDING HIGH PURITY APPLICATIONS</b>	<p>Particles from the zinc flake coating may loosen can contaminate sensitive environments such as clean rooms, food processing facilities, hydraulic / engine oil. Therefore NORD-LOCK recommends suitability testing in applications with specific requirements for high purity (no loose particles). Contact NORD-LOCK for product samples and further technical advice.</p>
<b>FURTHER INFORMATION</b>	<p>The surface coating process is performed at the NORD-LOCK factory in Sweden. Our Dörken certificate and salt spray test results are available through our website: <a href="http://www.nord-lock.com">www.nord-lock.com</a></p> <p><i>Dörken's website: <a href="http://www.doerken-mks.de">www.doerken-mks.de</a></i></p>





# DELTA PROTEKT®

Salt Spray Test results indicating no evidence of rust after 999 hours



## Testresults – Salt spray test by Nord-Lock AB.

Provningsprotokoll – Saltdimprovnings av Nord-Lock AB.

Standard: ISO 9227 Neutral salt spray test.

Washer Bricka	Control number Kontrollnummer	Pieces Antal	Surface treatment Ytbehandling
NL8	8142	5	Delta Protekt KL100+VH302GZ
NL20	8125	5	Delta Protekt KL100+VH302GZ
NL16sp	8175	6	Delta Protekt KL100+VH302GZ
NL1"	8183	5	Delta Protekt KL100+VH302GZ
NL3/8"	8186	5	Delta Protekt KL100+VH302GZ

	NL8	NL20	NL16sp	NL1"	NL3/8"
After 312 h	-	-	-	-	-
After 499 h	-	-	-	-	-
After 576 h	-	-	-	-	-
After 618 h	-	-	-	-	-
After 835 h	-	-	-	-	-
After 999 h	-	-	-	-	-

### Judgement points:

Bedömningsunderlag:

Number indicates how many washers been attacked by rust.

Nummer anger antal brickor angripna av rost

### A = Tendency to ferrous corrosion on typical area.

Tendens till röd rost på representativa ytor.

### B = Ferrous corrosion on typical area.

Röd rost på representativa ytor.

Test effect by: Bert Persson

Date: 2008-07-04

Provet utfört av

Datum

I:\Delad\PDF\Salt spray test resultat\Originaldokument\Provningsprotokoll saltdimprovnings Delta Protekt.doc

Rev. 2008-08-13 BP

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# Comparing Solutions

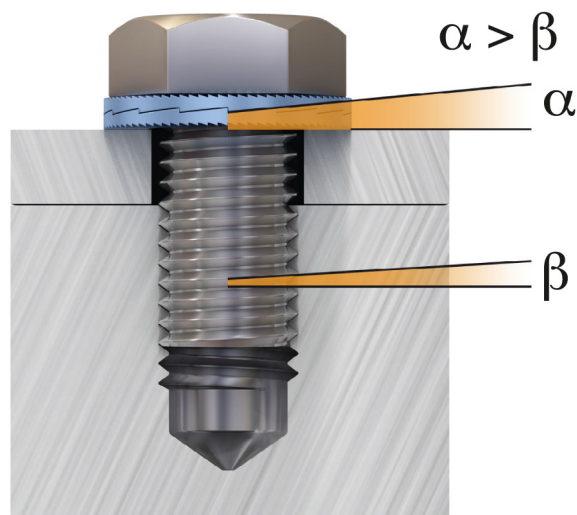
## Selection Guide

	NORD-LOCK	LOCKING WIRE	TAB WASHER	ADHESIVE	EXTENSION SLEEVE/ SOCKET	NYLON INSERT	DOUBLE NUT
Locking reliability	★★★★★	★★	★★	★★★★	★★	★★★	★
Assembly/ disassembly routines	Same procedure as unsecured fasteners	Requires additional tools and a skilled operator	Requires additional tools and a skilled operator	Requires degreasing. Curing up to 24 hours. Additional process for removal	Extra parts required, including longer bolts.	Same procedure as unsecured fasteners but a higher torque is needed to overcome thread friction	Requires two tightening's/ untightening's
Lubrication possible	Yes	Yes	Yes	No	Yes	No	No
Extra space required	No	Some, for assembly	Some, for assembly	No	Yes	No	Yes
Can secure short clamp length	Yes	Yes	Yes	Yes	No	No	No
Reusability	Yes	No	No	No. Also decreases reusability of fasteners	Yes	No	Yes
Prevents rotation caused by severe vibration and dynamic loads	Yes	No	No	No	No	No	No
Requires retightening	No	Retightening is generally not performed	Retightening is generally not performed	Retightening is generally not performed	Yes	Yes	Yes
Environmental and assembly safety	Recyclable. No risk for human injuries. Rapid assembly.	Recyclable. Risk of injuries and human error. Time-consuming assembly.	Recyclable. Risk of injuries and human error. Time-consuming assembly.	Not recyclable. Contains chemicals, can cause allergic reactions. Curing time required.	Recyclable, increases the materials used and weight to carry. Slightly increased assembly time.	Two materials, complicated to recycle. Increases assembly time.	Recyclable, more material and parts to carry, increased assembly time.

## Tension makes the bolt self-locking

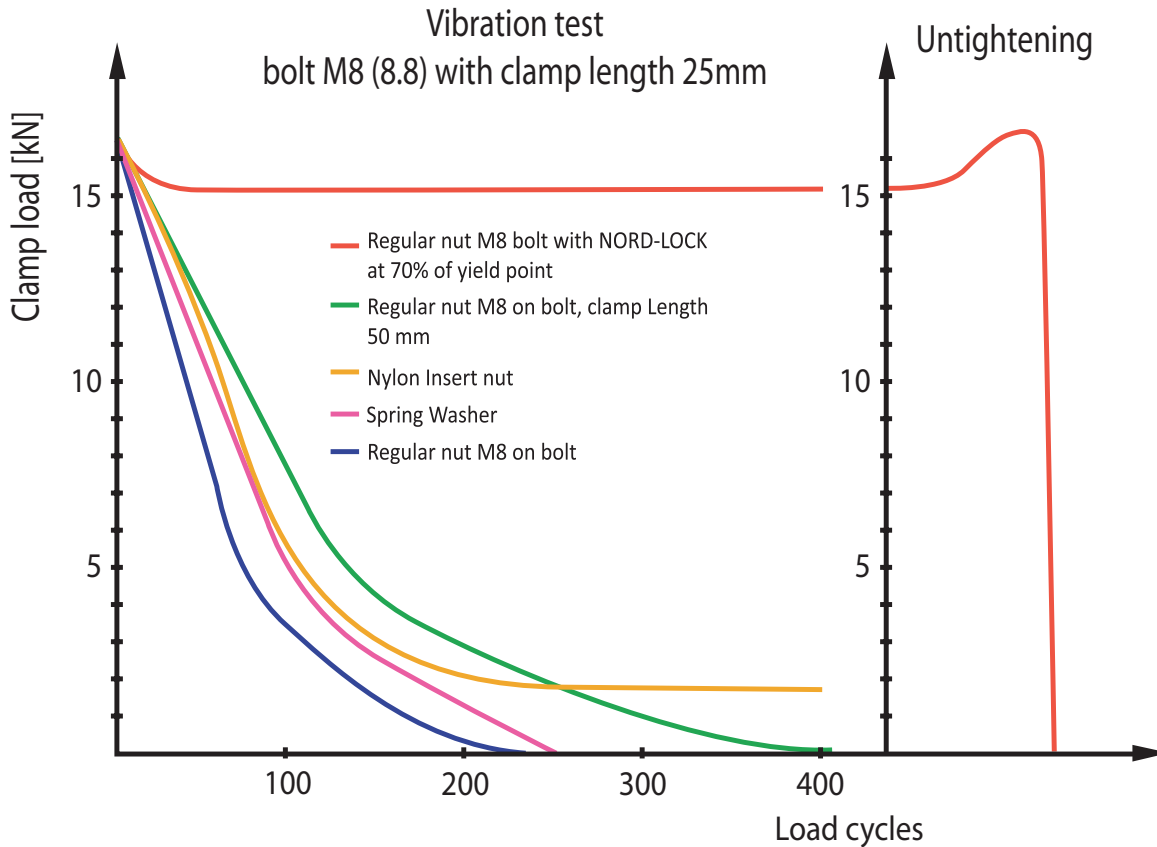
The key is the difference in angles. Since the cam angle " $\alpha$ " is larger than the thread pitch " $\beta$ ", the pair of washers expand more than the corresponding pitch of the thread.

NORD-LOCK® washers positively lock the fastener in a joint which is subjected to extreme vibration or dynamic loads.



# Comparing Solutions

## Vibration Test



The test diagram shows the bolt tension during vibration testing of some common fasteners. Most commonly used locking devices show limited performance when exposed to vibration.

The vibration tests with NORD-LOCK show a positive result, although some of the initial tension is lost due to normal settlements. The locking function proves itself when the nut is being untightened with a wrench, a clear increase in tension is registered.

Test report no. 375-130-91 carried out by the German TÜV confirms that after two million cycles the tension was maintained. An inspection of the washers showed that NORD-LOCK could be used safely.



# Our roads are full of danger

Now there is a simple way to make them safer



A bomb exploding. That is what a survivor said it felt like when a wheel which dislodged from a heavy vehicle struck his windshield. Hopefully, you have never been involved in an accident caused by a wheel travelling across the highway. But it only needs to happen once to cause a devastating impact on the life of any person or company. Now there is a simple and cost effective way to eliminate unintentional loosening of wheel nuts, which is the main cause of this safety problem.

The new Nord-Lock wheel nut safely secures wheels by maintaining a high clamp force even under severe operating conditions. Once tightened, the Nord-Lock wheel nut cannot loosen by itself. It is based on our proven wedge-locking technology, which has been

used worldwide for over 25 years in millions of bolted applications exposed to strong vibrations and high dynamic loads. The product has been thoroughly tested and offers outstanding performance compared with conventional wheel nuts\*. The Nord-Lock wheel nut suits standard flat-faced steel rims, M22x1.5 studs and is easy to install.

Safe wheels save lives

Find out more at [www.safe-wheels.com](http://www.safe-wheels.com)

\* Independent comparative testing of different wheel nuts was performed in 2009 by IMA, a leading material testing and research institute in Germany. More information available through [www.safe-wheels.com](http://www.safe-wheels.com)



Proudly distributed in Australia  
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**NORD-LOCK®**  
Bolt securing system

# Terms and Conditions



The Company and the Customer each agree with the other as follows:

## DEFINITIONS

Company means Hobson Engineering Pty Limited (A.B.N. 38 000 289 958).

Customer means the party described as the customer in the Delivery Docket as amended by the Invoice.

Delivery Docket means the document furnished by the Company to the Customer.

GST has the same meaning as given in A New Tax System (Goods and Services Tax) Act 1999 ("Act").

Invoice means a tax invoice (as defined in the Act) furnished by the Company to the Customer in respect of the product.

Product means the goods described as the product in the Delivery Docket as amended by the Invoice.

Purchase Order means the request by the Customer for the Product which is accepted by the Company.

Sum means the price and other monies payable for the Product together with GST payable on the supply of the Product.

## SUPPLY

The Company supplies to the Customer the Product in accordance with these terms and conditions as varied in writing by the Company. Any variation in writing by the Company shall take precedence to these terms and conditions. We reserve the right to supply 316 stainless steel in lieu of 304 stainless steel.

## PRICE

The Sum is set forth in the Purchase Order as amended by the Invoice. The Customer agrees that the Sum set forth in the Purchase Order may be amended by the Invoice in respect of the following:

arithmetic error; and

GST payable on the supply of the Product not included or incorrectly calculated in the Sum.

In addition to the price the Customer agrees, if so requested by the Company, to pay:

any increase in any GST taxes and duties which the Company may be required to collect or pay in respect of the Product after the date of the Delivery Docket; and

interest accruing on a daily basis on the unpaid balance of the Sum from the due date for payment until actual receipt at the rate of 1 per cent per month.

## PAYMENT

The Customer must pay the Sum within 30 days of the end of the month in which the Product is delivered to the Customer unless otherwise determined by the Company.

## TITLE AND RISK

Notwithstanding any other term and condition, the parties agree that the risk of the Product passes on delivery, but title to the Product does not pass until the Sum is paid in full. Until such time as the Sum is paid in full the Customer is only at liberty to sell the Product in the ordinary course of its business as agent for the Company on the condition that it holds on trust and accounts to the Company for the proceeds thereof. Pending the passing of title to the Product the Company may require the Customer to mark the Product as being the property of the Company.

## ACCEPTANCE

The initialling or signing of the Delivery Docket by the Customer or representative of the Customer shall constitute acceptance of the Product in accord with these terms and conditions.

## RETURNS AND ALLOWANCES

The Customer must satisfy itself within 14 days of the date of delivery of the Product with the type and quantity of the Product. In the event that the Customer considers it has not received the appropriate type and or quantity of Product it must notify the Company in writing within 14 days of the date of delivery of the Product. The notice must refer to the Delivery Docket number, the delivery date, the invoice number (if applicable) and provide adequate details of the incorrect type and or quantity of Product.

As a consequence of this condition the receipt of Products by the Company, returned by the Customer does not constitute acceptance of the Product. Acceptance by the Company shall only be given by the Company, in writing, after the Product has been inspected and found satisfactory in the opinion of the Company. In the event that the Company does not accept the Product the Customer will be notified and the Product made available to the Customer. As a consequence of this condition no transport or freight costs shall be borne by the Company unless agreed to in writing by the Company.

## EXCLUSION OF WARRANTY

Nothing in this agreement excludes, restricts or modifies any condition, warranty or liability which may at any time be implied by the Trade Practices Act or Sales of Goods Act (NSW) or equivalent State or Territory legislation or any other law where to do so is illegal or would render any provision of this agreement void.

Where the Company is responsible pursuant to the aforesaid condition warranty or liability which can not be excluded the parties agree that the Company shall only be liable for the cost of repair or the resupply of the Product. Subject to this condition any express or implied condition, statement or warranty (statutory or otherwise) in respect of the Product is expressly negated and excluded.

## GENERAL

The validity, interpretation and performance of this agreement will be governed by and construed in accordance with the law of the State of New South Wales and of the Commonwealth of Australia which the parties acknowledge is the proper law of this agreement. Each of the parties irrevocably agrees that the Courts of the State of New South Wales and of the Commonwealth of Australia will have jurisdiction to hear and determine any suit, action or proceedings, and to settle any dispute, which may arise out of or in connection with this agreement and for this purpose irrevocably submits to the jurisdiction of such Courts.

**DISCOUNTS** as advised are applicable to the prices shown in this price list.

**PRICES** The resale prices or discounts referred to in the price list are recommended only and there is no obligation to comply with the recommendation. Prices are subject to GST where applicable.

Minimum invoice value is \$40.00

**SHIPPING QUANTITIES** On specially manufactured items ( $\pm 10\%$ ).

**VALIDITY ON SPECIAL QUOTATIONS** 14 days unless otherwise stated.

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Note: Due to research and development, products are continually improved. This may lead to the specifications being changed without notice.

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