



KEABLES

“The Original Bolt and Nut Specialists”

PRODUCT GUIDE



Hobson Engineering Co. Pty. Ltd

A.B.N. 38 000 289 958

Quality Fasteners Since 1935



KEABLES

"The Original Bolt and Nut Specialists"

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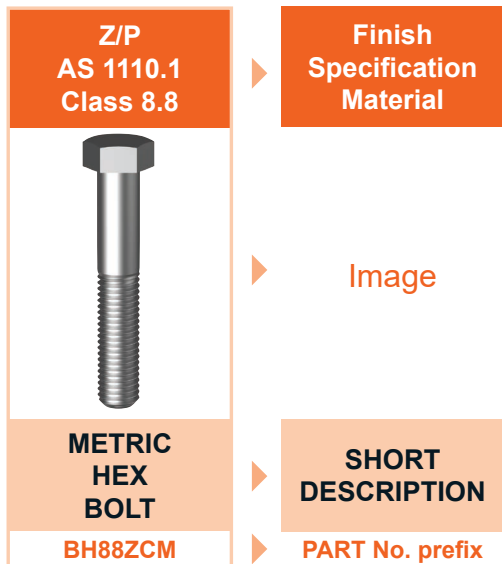


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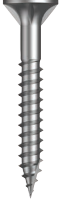

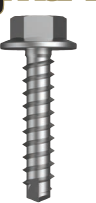
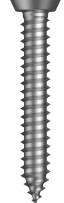
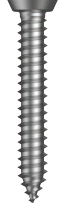
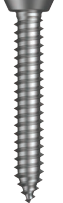
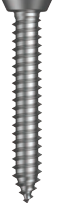
Search

Search for Test & NATA Certificates
Type Heat Number Find

Search Technical Documents
Go

Search entire Site
BH88ZCM

New Products	-		02
Trade Pax	PX		04
High-Tensile	HT		06
Structural	HO		10
SOKO	SO		16
Earthmoving	HE		18
Petrochemical	HS		19
Stainless Hardware	SH		20
Stainless Fasteners	SF		26
Neptune	S3		30
Bumax	SB		31
Nord-Lock	NL		32
Schnorr	SN		33
Washers	WS		34
Nylon	NF		38
Commercial	LO		40
Low-Tensile	LT		42
Cyclone	LC		44
Kits	XO		46
Mungo	CM		48
Conxtruct	CX		56
DRiLLX	DX		61

HDG EN14399-3: 2005 Class 8.8  K2 STRUCTURAL ASSEMBLY KBHK2GCM	HDG HEC Class 5.8  HEX WASHER HEAD POLE STEP STEEL KBW58GCM	HDG HEC Class 5.8  HEX WASHER HEAD POLE STEP TIMBER BW58GLM	SS 316 DIN 931  HEX BOLT BLANK BH16PBM	PLN AS 1110.1 Class 10.9  HEX BOLT BLANK BH10PBM	PLN AS 1252 Class 8.8  STRUCTURAL BOLT BLANK BHSTPBM	PLN ASTM A193 Grade B7  HEAVY HEX BOLT BLANK BPB7PB
Type 17 SS 316  BUGLE BATTEN 4 RIBS HEX DR T16WSBH	Type 17  WASHER HEAD TORX DR T9PWTGO	Class 3  HEX HEAD FLANGE T9PJ3FH	SS 304 ANSI B18.6.4  UNDERCUT CSK SELF TAPPING PHILLIPS T04SSDP	SS 304 ANSI B18.6.4  UNDERCUT CSK SELF TAPPING SQUARE DR T04SSDQ	Z/P ANSI B18.6.4  UNDERCUT CSK SELF TAPPING PHILLIPS T9PSZDP	Z/P ANSI B18.6.4  UNDERCUT CSK SELF TAPPING SQUARE DR T9PSZDQ



Product Guide

New Products

Security SS 304  PAN HEAD EYE DRIVE IMS04PEM	Security SS 304  CSK HEAD EYE DRIVE IMS04CEM	Security SS 304  PAN HEAD SELF TAPPING EYE DRIVE I04SSPE	Security SS 304  CSK HEAD SELF TAPPING EYE DRIVE I04SSCE	Security PLN HEC  SOCKET EYE DRIVE BIT ISBED	Security SS 304 ISO 7380  BARREL NUT BUTTON HEAD POST TORX INB04BTM	SS 316 HEC  LINCH PIN QPL16PM
ZYP HEC Carbon Steel  TY9aBolt® CSK SLEEVE ANCHOR MTCMSYM	SS 316 HEC  CHEMICAL ANCHOR KIT EXT. HEX MCA16PCM	SS 316 HEC  POST HEAD COUNTERSUNK INT THREAD MPC16PM	VMU PLUS  MKT® Vinylester Resin  CARTRIDGE 280ML + 2 MIXERS MCVMU0280	Z/P MKT® Carbon Steel  E/ES DROP-IN ANCHOR SETTING TOOL MDTESSM	Black HEC 25µm  SHRINK WRAP 500mm XSWB	PLN AS 1252 35-45HRC  TAPER WASHER 8° SQUARE WTSTPM

Z/P DIN 982 Class 8 NYLOC  METRIC HEAVY NYLOC® NUT NN08ZHCM	Z/P DIN 982 Class 10 NYLOC  METRIC HEAVY NYLOC® NUT NN10ZHCM	Z/P IFI-100NE Grade 2 NYLOC  UNF NYLOC® NUT NNG2ZF	Z/P ASME B18.2.2 Grade 2  UNF SLOTTED HEX NUT NOG2ZF	Z/P DIN 935 Class 5  METRIC FINE SLOTTED HEX NUT NO05ZFM	Brass AS 1112  METRIC HEX NUT NHBRPCM	Brass HEC AS 1237  METRIC FLAT ROUND WRBRPM
ZYP ISO 4161 Class 8  METRIC FINE SERRATED HEX FLANGE NUT NF08YFM	SS 316 ISO 4161  SERRATED HEX FLANGE NUT NF16PCM	Z/P AS 1112.1 Class 10  METRIC FINE HEX NUT NH10ZFM	SS 316 DIN 934  HEX NUT LEFT HAND NH16PDM	PLN ISO 4161 Class 10  NO SERRATION HEX FLANGE NUT NF10PPM	Brass AS 1427:1996  METAL THREAD COUNTERSUNK SLOT MSBRPCS	Brass AS 1427:1996  METAL THREAD PAN SLOT MSBRPPS

Product Guide New Products



<div>HEC</div> <div></div> <div>ALLTHREAD CUTTER M10 / M12</div> <div>XTBAB-M</div>	<div>Black HEC</div> <div></div> <div>ALLTHREAD CUTTER M10 / M12 REPL DIE</div> <div>XTBD-M</div>	<div>HDG ISO 898-1 Class 4.6 UTS</div> <div></div> <div>FORGED EYEBOLT KIT</div> <div>KEFMSGCM</div>	<div>HDG Mild Steel Class 4.8</div> <div></div> <div>FOUNDATION L-BOLT</div> <div>LB48GCM</div>	<div>HDG HEC Mild Steel</div> <div></div> <div>VOLUTE SPRING WASHER</div> <div>WVMSGM</div>	<div>SS 316 HEC</div> <div></div> <div>VOLUTE SPRING WASHER</div> <div>WV16PM</div>	
<div>SS 316 DIN 94</div> <div></div> <div>METRIC SPLIT PIN</div> <div>QPS16PM</div>	<div>SS 304</div> <div></div> <div>COUNTERSUNK OPEN RIVET</div> <div>R0472OLL</div>	<div>SS 304</div> <div></div> <div>DOME HEAD OPEN RIVET</div> <div>R0473OLL</div>	<div>5052 Aluminium</div> <div></div> <div>DOME HEAD OPEN RIVET</div> <div>R9P73QAA</div>	<div>5056 AL Steel ZP</div> <div></div> <div>DOME HEAD SEALED RIVET</div> <div>R9673TG6S</div>	<div>Z/P ISO 7380 Class 8.8</div> <div></div> <div>METRIC BUTTON HEAD SOCKET</div> <div>SB88ZCM</div>	<div>Z/P DIN 912 Class 8.8</div> <div></div> <div>METRIC SOCKET HEAD CAP SCREW</div> <div>SH88ZCM</div>



Product Guide **TRADE PAX**



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Product Guide

TRADE PAX™



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Metal
Class 4



HEX HEAD
FLANGE

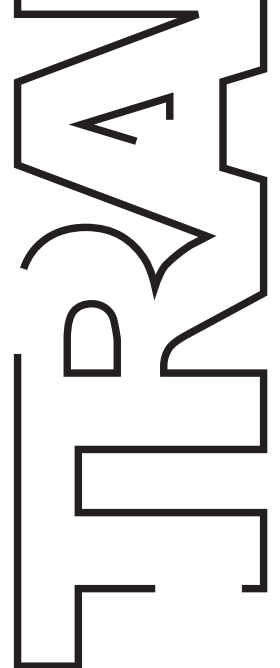
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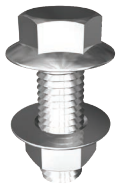

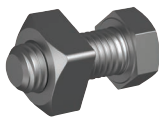









Product Guide

High-Tensile































<p>HDG DIN 975 Class 8.8</p>  <p>METRIC SAMPSONROD® 1m & 3m</p> <p>AS88GCM</p>	<p>HDG DIN 975 Class 8.8</p>  <p>METRIC FOUNDATION STUD</p> <p>AS88GCM</p>	<p>HDG DIN 975 Class 8.8</p>  <p>METRIC FINE SAMPSONROD®</p> <p>AS88GFM</p>	<p>PLN DIN 975 Class 8.8</p>  <p>METRIC SAMPSONROD® 1m & 3m</p> <p>AS88PCM</p>	<p>PLN DIN 975 Class 8.8</p>  <p>METRIC FINE SAMPSONROD®</p> <p>AS88PFM</p>	<p>ZYP DIN 975 Class 8.8</p>  <p>METRIC SAMPSONROD® 1m & 3m</p> <p>AS88YCM</p>	<p>HDG IFI 136C Grade 5</p>  <p>UNC SAMPSONROD® 3ft</p> <p>ASG5GC</p>
<p>PLN IFI 136C Grade 5</p>  <p>UNC SAMPSONROD® 3ft</p> <p>ASG5PC</p>	<p>PLN IFI 136C Grade 5</p>  <p>UNF SAMPSONROD® 3ft</p> <p>ASG5PF</p>	<p>PLN AS 3501 Grade 5</p>  <p>BSF SAMPSONROD® 3ft</p> <p>ASG5PS</p>	<p>PLN IFI 136C Grade 5</p>  <p>UN8 SAMPSONROD® 3ft</p> <p>ASG5PU</p>	<p>PLN AS 3501 Grade 5</p>  <p>BSW SAMPSONROD® 3ft</p> <p>ASG5PW</p>	<p>PLN DIN 975 Class 10.9</p>  <p>METRIC HOBROD™ 1m</p> <p>AS10PCM</p>	<p>PLN IFI 136C Grade 8</p>  <p>UNC HOBROD™ 3ft</p> <p>ASG8PC</p>
<p>HDG HEC Class 8</p>  <p>HEX COUPLER</p> <p>AXHC08GCM</p>	<p>PLN DIN 6921 Class 10.9</p>  <p>FLANGED HEX BOLT</p> <p>BF10PCM</p>	<p>PLN HEC Class 10.9</p>  <p>D-LOK HEX BOLT</p> <p>BFDLPCM</p>	<p>HDG HEC Class 8.8</p>  <p>PURLIN HEX 2 WASHER BOLT & NUT</p> <p>KBHHTGCM</p>	<p>Z/P HEC Class 8.8</p>  <p>PURLIN HEX 2 WASHER BOLT & NUT</p> <p>KBHHTZCM</p>	<p>HDG HEC Class 8.8</p>  <p>PURLIN HEX FLANGE BOLT & NUT</p> <p>KBFHTGCM</p>	<p>Z/P HEC Class 8.8</p>  <p>PURLIN HEX FLANGE BOLT & NUT</p> <p>KBFHTZCM</p>
<p>HDG HEC Class 8.8</p>  <p>METRIC FASCIA BOLT KIT</p> <p>KBIHTGCM</p>	<p>HDG HEC Class 8.8</p>  <p>TRAILER ADJ BOLT ASSEMBLY</p> <p>KBS88GQM</p>	<p>HDG AS 1110.2 Class 8.8</p>  <p>METRIC HEX SET SCREW</p> <p>BS88GCM</p>	<p>Z/P AS 1110.2 Class 8.8</p>  <p>METRIC HEX SET SCREW</p> <p>BS88ZCM</p>	<p>PLN AS 1110.2 Class 8.8</p>  <p>METRIC HEX SET SCREW</p> <p>BS88PCM</p>	<p>HDG AS 1110.1 Class 8.8</p>  <p>METRIC HEX BOLT</p> <p>BH88GCM</p>	<p>PLN AS 1110.1 Class 8.8</p>  <p>METRIC HEX BOLT</p> <p>BH88PCM</p>

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High-Tensile

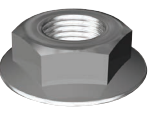
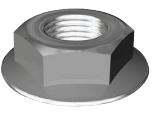
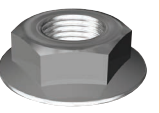
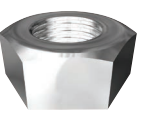
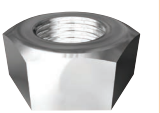


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<p>Z/P AS 2465 Grade 8</p>  <p>UNC HEX SET SCREW</p> <p>BSG8ZC</p>	<p>PLN AS 2465 Grade 8</p>  <p>UNC HEX SET SCREW</p> <p>BSG8PC</p>	<p>Z/P AS 2465 Grade 8</p>  <p>UNC HEX BOLT</p> <p>BHG8ZC</p>	<p>PLN AS 2465 Grade 8</p>  <p>UNC HEX BOLT</p> <p>BHG8PC</p>	<p>Z/P AS 2465 Grade 8</p>  <p>UNC HEX BOLT & NUT</p> <p>KBHG8ZC</p>	<p>PLN AS 2465 Grade 8</p>  <p>UNC HEX BOLT & NUT</p> <p>KBHG8PC</p>	<p>Z/P AS 2465 Grade 8</p>  <p>UNF HEX SET SCREW</p> <p>BSG8ZF</p>



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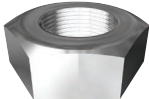

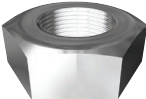
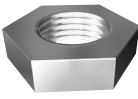
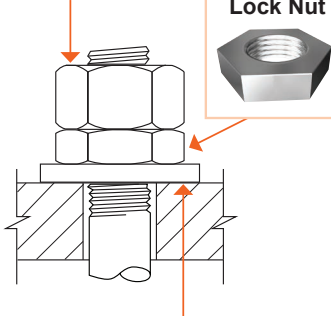

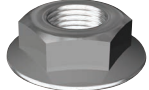
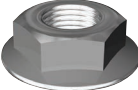
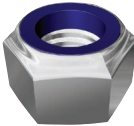
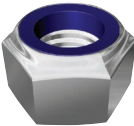
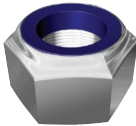
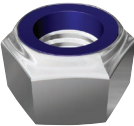
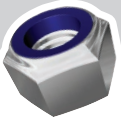
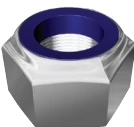
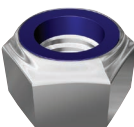
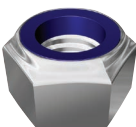
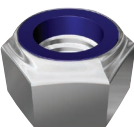
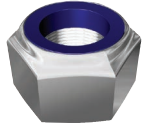
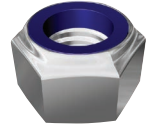
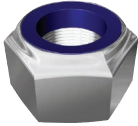
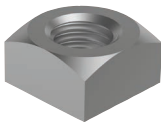



High-Tensile

<p>PLN AS 2465 Grade 8</p>  <p>UNF HEX SET SCREW</p> <p>BSG8PF</p>	<p>Z/P AS 2465 Grade 8</p>  <p>UNF HEX BOLT</p> <p>BHG8ZF</p>	<p>PLN AS 2465 Grade 8</p>  <p>UNF HEX BOLT</p> <p>BHG8PF</p>	<p>Z/P DIN 980 Class 10</p>  <p>METRIC CONE LOCK HCL NUT</p> <p>NC10ZCM</p>	<p>Z/P DIN 980 Class 10</p>  <p>METRIC FINE CONE LOCK HCL NUT</p> <p>NC10ZFM</p>	<p>Z/P IFI 100-107 Grade C</p>  <p>UNC CONE LOCK HCL NUT</p> <p>NCGCZC</p>	<p>Z/P IFI 100-107 Grade C</p>  <p>UNF CONE LOCK HCL NUT</p> <p>NCGCZF</p>
<p>HDG ISO 4161 Class 8</p>  <p>METRIC SERRATED HEX FLANGE NUT</p> <p>NF08GCM</p>	<p>ZYP ISO 4161 Class 8</p>  <p>METRIC SERRATED HEX FLANGE NUT</p> <p>NF08YCM</p>	<p>PLN ISO 4161 Class 10</p>  <p>SERRATED HEX FLANGE NUT</p> <p>NF10PCM</p>	<p>ZYP HEC Class 10</p> <p>NYLOC</p>  <p>METRIC NYLOC® FLANGE NUT</p> <p>NF10YNM</p>	<p>ZYP IFI 145 Grade 5</p>  <p>UNC SERRATED HEX FLANGE NUT</p> <p>NFG5YC</p>	<p>PLN IFI 145 Grade 8</p>  <p>UNF SERRATED HEX FLANGE NUT</p> <p>NFG8PF</p>	<p>Z/P IFI 145 Grade 8</p>  <p>UNC SERRATED HEX FLANGE NUT</p> <p>NFG8ZC</p>
<p>Z/P IFI 145 Grade 8</p>  <p>UNF SERRATED HEX FLANGE NUT</p> <p>NFG8ZF</p>	<p>HDG AS 1112.1 Class 8</p>  <p>METRIC HEX NUT</p> <p>NH08GCM</p>	<p>HDG AS 1112.1 Class 8</p>  <p>METRIC HEX NUT LEFT HAND</p> <p>NH08GDM</p>	<p>PLN AS 1112.1 Class 8</p>  <p>METRIC HEX NUT</p> <p>NH08PCM</p>	<p>PLN AS 1112.1 Class 8</p>  <p>METRIC FINE HEX NUT</p> <p>NH08PFM</p>	<p>Z/P AS 1112.1 Class 8</p>  <p>METRIC HEX NUT</p> <p>NH08ZCM</p>	<p>Z/P AS 1112.1 Class 8</p>  <p>METRIC FINE HEX NUT</p> <p>NH08ZFM</p>
<p>PLN AS1112.1 Class 10</p>  <p>METRIC HEX NUT</p> <p>NH10PCM</p>	<p>PLN AS1112.1 Class 10</p>  <p>METRIC FINE HEX NUT</p> <p>NH10PFM</p>	<p>Z/P AS1112.1 Class 10</p>  <p>METRIC HEX NUT</p> <p>NH10ZCM</p>	<p>PLN AS 2465 Grade 5</p>  <p>UNC HEX NUT</p> <p>NHG5PC</p>	<p>PLN AS 2465 Grade 5</p>  <p>UNF HEX NUT</p> <p>NHG5PF</p>	<p>Z/P AS 2465 Grade 5</p>  <p>UNC HEX NUT</p> <p>NHG5ZC</p>	<p>Z/P AS 2465 Grade 5</p>  <p>UNF HEX NUT</p> <p>NHG5ZF</p>

Product Guide

High-Tensile



<p>PLN AS 2465 Grade 8</p>  <p>UNC HEX NUT</p> <p>NHG8PC</p>	<p>PLN AS 2465 Grade 8</p>  <p>UNF HEX NUT</p> <p>NHG8PF</p>	<p>Z/P AS 2465 Grade 8</p>  <p>UNC HEX NUT</p> <p>NHG8ZC</p>	<p>Z/P AS 2465 Grade 8</p>  <p>UNF HEX NUT</p> <p>NHG8ZF</p>	<p>HDG AS 1112.4 Use with Class 8</p>  <p>METRIC THIN HEX LOCK NUT</p> <p>NL08GCM</p>	<p>Structural Hex Nut</p> <p>Thin Hex Lock Nut</p>  <p>Structural Washer</p>		
<p>Z/P AS 1112.4 Use with Class 8</p>  <p>METRIC THIN HEX LOCK NUT</p> <p>NL08ZCM</p>	<p>HDG ISO 4161 Class 8</p>  <p>METRIC FLANGED HEX NUT</p> <p>NF08GPM</p>	<p>Z/P ISO 4161 Class 8</p>  <p>METRIC FLANGED HEX NUT</p> <p>NF08ZPM</p>	<p>MGAL DIN 985 Class 8</p> <p>NYLOC</p>  <p>METRIC NYLOC® NUT</p> <p>NN08GCM</p>	<p>ZYP DIN 985 Class 8</p> <p>NYLOC</p>  <p>METRIC NYLOC® NUT</p> <p>NN08YCM</p>	<p>ZYP DIN 985 Class 8</p> <p>NYLOC</p>  <p>METRIC FINE NYLOC® NUT</p> <p>NN08YFM</p>	<p>Z/P DIN 985 Class 8</p> <p>NYLOC</p>  <p>METRIC NYLOC® NUT</p> <p>NN08ZCM</p>	
<p>NYLOC®</p> <p>Nylon insert locknuts</p>  <p>Anti-vibration solution.</p>				<p>Z/P DIN 985 Class 8</p> <p>NYLOC</p>  <p>METRIC FINE NYLOC® NUT</p> <p>NN08ZFM</p>	<p>ZYP DIN 985 Class 10</p> <p>NYLOC</p>  <p>METRIC NYLOC® NUT</p> <p>NN10YCM</p>	<p>Z/P DIN 985 Class 10</p> <p>NYLOC</p>  <p>METRIC NYLOC® NUT</p> <p>NN10ZCM</p>	<p>Z/P IFI-100NE Grade 5</p> <p>NYLOC</p>  <p>UNC NYLOC® NUT</p> <p>NNG5Z</p>
<p>Z/P IFI-100NE Grade 5</p> <p>NYLOC</p>  <p>UNF NYLOC® NUT</p> <p>NNG5ZF</p>	<p>Z/P IFI-100NE Grade 8</p> <p>NYLOC</p>  <p>UNC NYLOC® NUT</p> <p>NNG8ZC</p>	<p>Z/P IFI-100NE Grade 8</p> <p>NYLOC</p>  <p>UNF NYLOC® NUT</p> <p>NNG8ZF</p>	<p>HDG DIN 557 Class 8</p>  <p>METRIC SQUARE NUT</p> <p>NQ08GCM</p>	<p>Z/P HEC Class 8.8</p>  <p>STARTER BAR L BOLT</p> <p>LB88ZCM</p>	<p>PLN AS 1085.4 Class 8.8</p>  <p>FISHBOLT & NUT</p> <p>DBD88PCM</p>	<p>PLN AS 1085.4/7 Class 8.8</p>  <p>FISHBOLT NUT & SPRING WASHER</p> <p>DBD88PSM</p>	



Technical info Structural

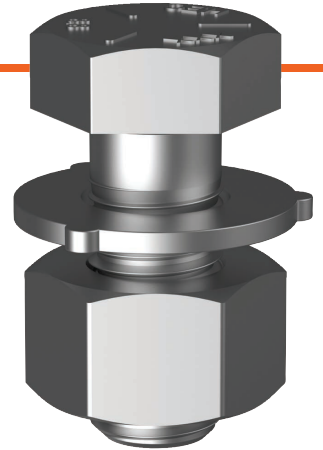
AS 1252: 2016 K0 8.8 HR Structural Assembly

» AS 1252: 2016 K0 8.8 HR replaces AS 1252: 1983 dimensional (1996 mechanical)

- » Fully adhering to the new standard.
- » Unique Batch head marking. See photo below
- » Verification Testing Reports included in the Supplier Declaration of Conformance [SDoC].
- » Full Quality Assurance documentation online.



Assembly testing was made to be 'normative' in AS 1252: 2016. **This makes it compulsory to do assembly testing for K0 assemblies.**



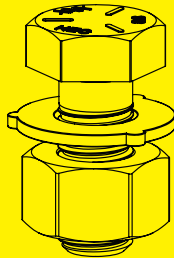
**HOT DIP GALVANISED
K0 STRUCTURAL ASSEMBLY
AS1252:2016 K0 / CLASS 8.8**

M20 x 50

50 pcs

Q:K02050

SDoC: This product complies to AS1252:2016 Part 1 and 2 (mandatory).
ALL conforming documentation and quantity production units are
available online at hobson.com.au/k0 or scan the below QR code.



KBHK0GCM200050

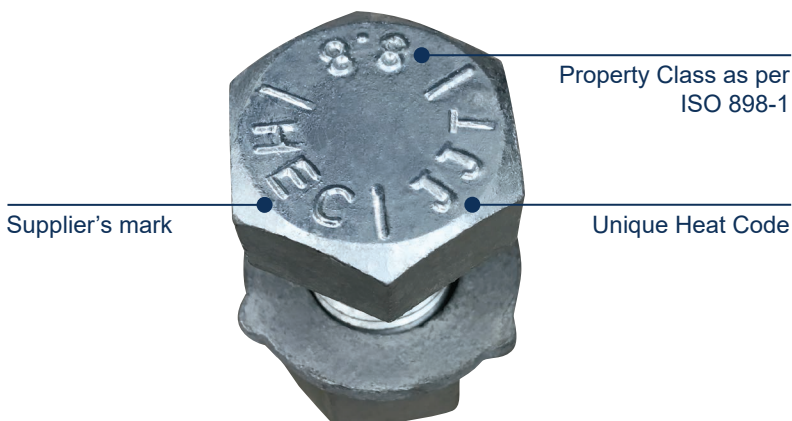
HEAT: JJT-E987654



LOT: A123456
PO: 99999 NS1
CTN WGT: 16.00kg

K0 8.8 HR STRUCTURAL ASSEMBLY HOT DIP GALVANISED / AS1252:2016 K0 / CLASS 8.8

Part	Size	Length (mm)
KBHK0GCM120	M12	30-200
KBHK0GCM160	M16	40-700
KBHK0GCM200	M20	40-800
KBHK0GCM220	M22	55-200
KBHK0GCM240	M24	50-750
KBHK0GCM270	M27	80-200
KBHK0GCM300	M30	75-725
KBHK0GCM330	M33	130-230
KBHK0GCM360	M36	90-600

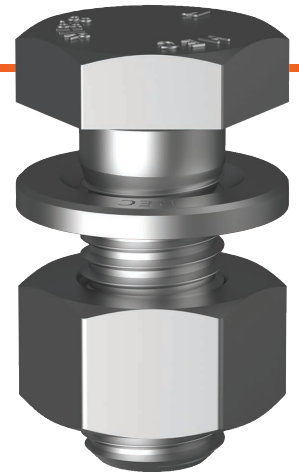


Technical info Structural

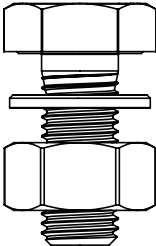



EN 14399: 2005 K2 8.8 HR Structural Assembly

- » EN 14399: 2005 K2 8.8 HR [AS 1252: 2016 states that EN 14399 can be used as an 'alternative assembly type'].
- » Premium Range.
- » Unique batch head marking. See photo below.
- » Friction tightly controlled during manufacture. Refer details on the label for k factor and torque method.
- » Torque able to be used for tensioning.
- » Full Quality Assurance documentation online.

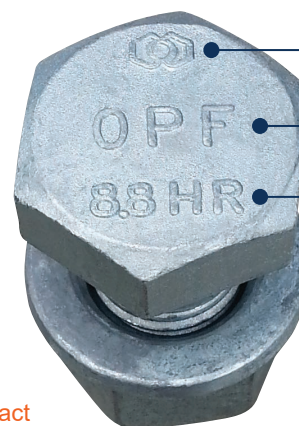


Carton Label

HR, HDG (EN14399-3 8.8 BOLT/ (1) EN14399-3 CL.8 NUT/ (1) EN14399-5 WASHER)		
KBHK2GCM240080	LOT# 2015351400	Quantity: 30 PCS
PO# 58949	Hobson Engineering 10 Clay Place Eastern Creek NSW 2766 AUSTRALIA	
Heat Code: 2MT		
 935062901642		
M24x3.0Px80		
Torque Method according to EN1090-2 1 1st : 430 Nm 2 2nd : 630 Nm		
k - class K2 3 k_m : 0.120 4 V_k : 0.06		KEG NO: 1 PLT NO: 155

K2 8.8 HR STRUCTURAL ASSEMBLY HOT DIP GALVANISED / EN14399:2005 K2 / CLASS 8.8

Part	Size	Length (mm)
KBHK2GCM160	M16	40-100
KBHK2GCM200	M20	45-350
KBHK2GCM220	M22	65-130
KBHK2GCM240	M24	50-150
KBHK2GCM300	M30	75-500
KBHK2GCM360	M36	90-200



Manufacturer's mark

Unique Heat Code

Property Class as per
ISO 898-1 and HR

- ① The rated torque value required to bring the steel plies to firm contact (Snug or Bearing Joint).
- ② The rated torque value required to reach the correct tension in the assembly (Friction Joint).
- ③ The mean value of the k-factor obtained through testing.
- ④ V_k is the coefficient of variation of the k-factor values obtained in testing.

ONLINE

Technical Article link:
[k2-structural-assembly.pdf](https://www.hobson.com.au/k2-structural-assembly.pdf)



Technical info Structural

Required Documentation

EN 14399: 2005 **K2** 8.8 HR
Assembly document structure.

» European Conformity (CE) Certificate.

The European Conformity (CE) mark is given to a manufacturer who has been assessed by a notified body and audited to the Harmonised European Standard (hEN) stating that they have the fabrication processes and quality management in place which is acceptable for the products manufactured. It is a requirement in the European Union to have the required CE marking on their products. A CE mark is only required in AS 1252: 2016 for the alternative and additional assembly types.

» Factory Production Control (FPC).

Inspection Certificate.

» Declaration of Performance (DoP).

AS 1252: 2016 **K0** 8.8 HR
Assembly document structure.

» Initial Type Testing Certificate (ITT) as demonstrated by the European Conformity (CE) Certificate.

» Factory Production Control (FPC).

Inspection Certificate.

» Verification Testing Report must be included in the Supplier Declaration of Conformance (SDoC).

Verification Testing is an additional layer to the quality assurance of the **K0** assemblies arriving in Australia.

Verification Testing must be completed by an independent ILAC (NATA equivalent global body) accredited laboratory.

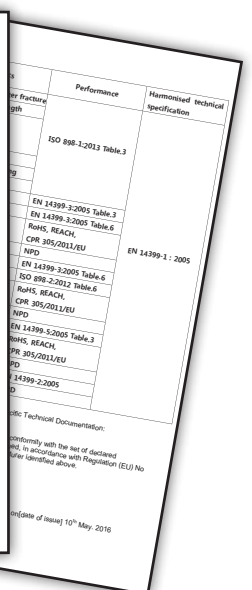
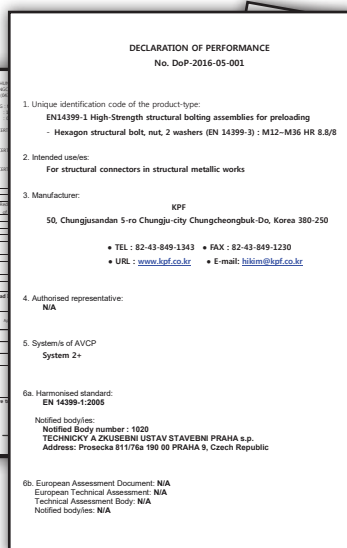
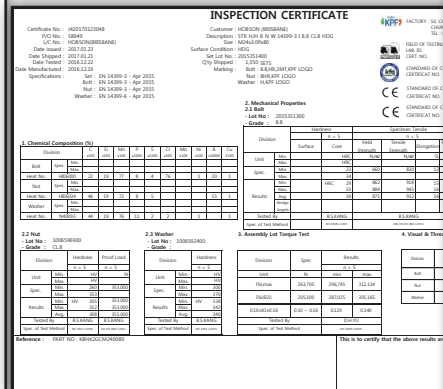
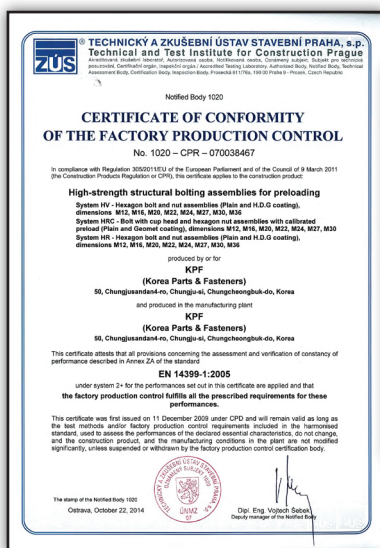
K2 Quality Assurance Documentation Online

2MT

FIND

Find Test Certificates by typing at least 3 characters of a Heat Number. Then press the FIND button to retrieve links to all matching certificates.

Heat Number	Description	Category	Part Number	Certificates
2015351400-2MT	EN 8.8 K2 HDG BNW:M24 X 80	AS1252 Structural	KBHK2GCM240080	CE F D



The European Union's
Certificate of conformity



Declaration of
Performance (DoP)

Technical info Structural



K0 Quality Assurance Documentation Online

JJT

FIND

Find Test Certificates by typing at least 3 characters of a Heat Number. Then press the FIND button to retrieve links to all matching certificates.

Heat Number	Description	Category	Part Number	Certificates
JJT-E987654	K0 AS1252:2016 HDG BNW:M20 X 50	AS1252 Structural	KBHK0GCM200050	ITT F S



INSPECTION CERTIFICATE

Customer: Hobson
Product: K0 AS1252:2016 HDG BNW:M20 X 50
Order: M20 X 50
Marking: HEC 8.8 J88
Washer: H

Invoice No.: INV0389
BIC No.: 23398
Part No.: KBHK0GCM200050
Production Date: 27-Apr-17
Sublot Condition: HDG
Assembly Trace No.: 201552480
Qty Shipped: 10

Factory: Hobson Engineering approved Factory No.02
Certificate No.: J42617012353
Date Shipped: 27-Apr-17

Specifications: Std: AS1252:2016 K0 Class-K0
Bolt: AS1252:2016
Nut: AS1252:2016
Washer: AS1252:2016

2 Mechanical Properties

2.1 Bolt

Division	Surface	Core	Hardness	Strength	Elongation	Reduction of Area	Proof Load	Weight Tolerance
Unit	mm	mm	HRC	N/mm ²	%	%	N	%
Spec	20	20	32	1000	10	40	210000	±10
Results	20	20	32	1000	10	40	210000	±10
Conform	AS1252	AS1252	AS1252	AS1252	AS1252	AS1252	AS1252	AS1252

2.2 Washer

Division	Hardness	Strength	Elongation	Reduction of Area	Proof Load	Weight Tolerance
Unit	HRC	N/mm ²	%	%	N	%
Spec	32	1000	10	40	210000	±10
Results	32	1000	10	40	210000	±10
Conform	AS1252	AS1252	AS1252	AS1252	AS1252	AS1252

3 Assembly Test

Division	Appearance	Thread
Unit	mm	mm
Spec	20	20
Results	20	20
Conform	AS1252	AS1252

4 Visual & Thread Inspection

Division	Appearance	Thread
Unit	mm	mm
Spec	20	20
Results	20	20
Conform	AS1252	AS1252

This is to certify that the above results are true and correct to entry details.

Han Kun
Quality Control Manager

F Factory Production Control (FPC)

ITT Initial Type Testing (ITT)

TEST REPORT

Report number: ZMTC/JC-2017-4-WG2-2(Z)
Sample name: Assembly (Bolt,Nut,Washer)
Customer: HOBSON ENGINEERING CO PTY. LTD.

Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

TEST REPORT

Page 1 of 6

Test Category	Client's designation	Test Results	Item Conclusion
Trademark	/	19 232 100	Pass
Grade	N/A	29 233 700	Pass
Receiving Number of Samples	6 PCS	39 234 000	Pass
Properties Grade	Bolt Grade 8.8 Nut Grade 8	19 +5 μm	Pass
Receiving Date of Samples	17. Mar. 2017	29 +4 μm	Pass
Line Detc	AS1252-1983 HDG BNW:M20X120	39 +6 μm	Pass
Trace	RG1604168002	19 58.0	Pass
Test to 2K0	Test Type K	29 58.6	Pass
Lot Number	00059014	39 59.0	Pass
Shipment	#010822	19 59.5	Pass
Y8 AS1252 1252 12009 AS1252		29 59.5	Pass
988-2-012 EN 14399-2-2015 and		39 59.5	Pass
23) the test items conform to the		19 59.5	Pass

Page 2 of 6

Page 3 of 6

Page 4 of 6

Page 5 of 6

S Suppliers Declaration of Conformity (SDoC)

SDoC Compliance Statement

Hobson Engineering Co Pty Ltd (ABN 58 000 289 958) has reviewed the Initial Type Testing (ITT) reports of the factory that produced the product.

Hobson Engineering Co Pty Ltd (ABN 58 000 289 958) has reviewed the Factory Production Control (FPC) reports for the items on this verification report of the factory that produced the product.

Hobson Engineering Co Pty Ltd (ABN 58 000 289 958) and the factory that produced these products have systems satisfying ISO 9001 and procedures are in place to maintain product integrity, including testing procedures and nonconforming product.

Hobson Engineering Co Pty Ltd (ABN 58 000 289 958) has reviewed the Hobson Engineering Co Pty Ltd (ABN 58 000 289 958) compliance of this product to AS1252:2016 Part 1 and Part 2 (Headlines).

Signed on the authorized competent person at Hobson Engineering Co Pty Ltd

Peter Hobson & Eng (2004)
Quality Assurance Manager
CEO

Page 1 of 1



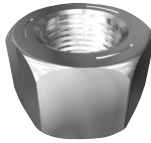
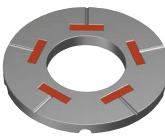
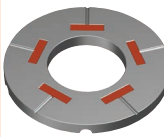



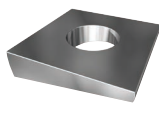



Product Guide Structural



**applied
bolting**
TECHNOLOGY

American Quality

<p>HDG AS 1252: 1983 Class 8.8</p>  <p>STRUCTURAL ASSEMBLY</p> <p>KBHSTGCM</p>	<p>HDG AS 1252: 2016 Class 8.8</p>  <p>K0 STRUCTURAL ASSEMBLY</p> <p>KBHK0GCM</p>	<p>HDG EN 14399: 2005 Class 8.8</p>  <p>K2 STRUCTURAL ASSEMBLY</p> <p>KBHK2GCM</p>	<p>HDG AS 1252 Class 8</p>  <p>STRUCTURAL HEX NUT</p> <p>NHSTGCM</p>	<p>PLN AS 1252 Class 8</p>  <p>STRUCTURAL HEX NUT</p> <p>NHSTPCM</p>	<p>MGAL ASTM F959M Class 8.8</p>  <p>METRIC SQUIRTER® DTI WASHER</p> <p>WDSTGM</p>	<p>PLN ASTM F959M Class 10.9</p>  <p>METRIC SQUIRTER® DTI WASHER</p> <p>WD10PM</p>
<p>MGAL ASTM F959M Class 10.9</p>  <p>METRIC SQUIRTER® WASHER</p> <p>WD10MM</p>	<p>MGAL ASTM F959M Class 8.8</p>  <p>METRIC LOAD INDICATOR</p> <p>WISTGM</p>	<p>HDG AS 1252 32-45HRC</p>  <p>STRUCTURAL WASHER</p> <p>WRSTGM</p>	<p>PLN AS 1252 35-45HRC</p>  <p>STRUCTURAL WASHER</p> <p>WRSTPM</p>	<p>HDG AS 1252 26-45HRC</p>  <p>TAPER WASHER 8° SQUARE</p> <p>WTSTGM</p>	<p>SS 301 HEC</p>  <p>FEELER GAUGE 0.13MM</p> <p>XGF013</p>	<p>Cartridge 425g</p>  <p>STICK WAX LUBRICANT</p> <p>XXWSC</p>

Save 25% on your bolting installation cost. Ask us how.

orange is good

Bolting made Safe, Easy and Accurate

» Squirter® Direct Tension Indicator Washer.

» TONE® Electric Torque Control Wrench.

**Squirter® DTI
Washers**



TONE®

**TONE® Electric Torque
Control Wrench**

PART: XT-STC7TE

PART: XT-STC12TE



Japanese Engineering

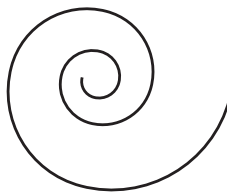
Structural Bolts Installation

AS4100-1998

Working definitions:

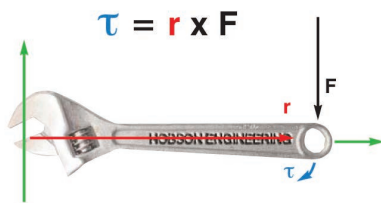
Torque

The energy taken to twist the nut up the thread of the bolt (Measured in Nm).



Torque is not used as a measure for the tensioning of structural bolting. Bolt torque values are not shown in AS4100.

Mathematically, torque can be defined as:



Tension

The force generated in the bolt to clamp the steel plies together (Measured in kN).

Nominal Size	Pitch	Minimum Bolt Tension Kn
M12	1.75	51
M16	2.0	95
M20	2.5	145
M24	3.0	210
M30	3.5	335
M36	4.0	490

Note: the minimum bolt tension shown (AS4100-1998) is approximately equivalent to the minimum proof loads shown in AS1252-1996.

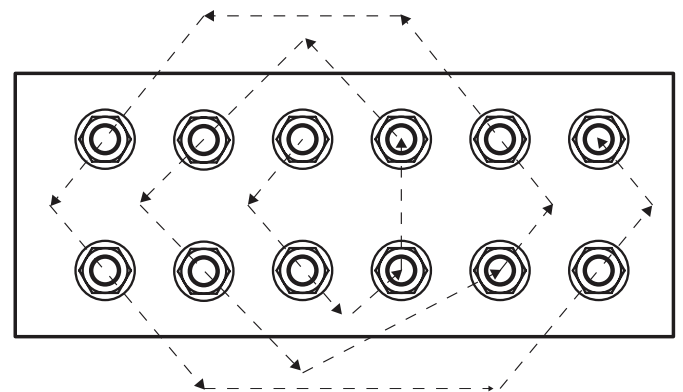
Snug tight

Prior to final tensioning of structural bolts the steel plies must be brought into effective contact. This is referred to as Snug-tight i.e. no gap between the steel plies.

Snug-tight can be achieved by a few impacts of an impact wrench or by the full effort of a person using a standard podger spanner. Correct bolt tension is required to ensure effective load transmission on the joint. Effective load transmission will not be achieved if a gap between the steel plates remains, which can occur if there is deformation from welding.

Tightening pattern

Snug-tightening and final tensioning of the bolts in a connection shall proceed from the stiffest part of the connection towards the free edges. An example interpretation of a systematic pattern for tightening is provided:



Delivery, storage and handling

Structural bolt assemblies supplied to AS1252-1996 must be stored in the manufacturers carton protected from wet weather. White rusting on the galvanised surface, dust and removal of the water soluble lubricant on the nut can severely effect installation and correct tensioning.

Re-use of structural assemblies

Under no circumstances can a structural bolt which has been fully tensioned (i.e. the minimum values shown above) be re-used. If a bolt has been tensioned and then has to be removed it must be marked accordingly and destroyed.



Product Guide



<p>Z/P DIN 912 Class 12.9</p>  <p>METRIC CAP SCREW SOCKET</p> <p>SHSOZCM</p>	<p>PLN DIN 912 Class 12.9</p>  <p>METRIC CAP SCREW SOCKET</p> <p>SHSOPCM</p>	<p>PLN DIN 7984 Alloy Steel</p>  <p>METRIC LOW HEAD SOCKET</p> <p>SLSOPCM</p>	<p>Z/P DIN 7991 Class 12.9*</p>  <p>METRIC CSK SOCKET</p> <p>SCSOZCM</p>	<p>PLN DIN 7991 Class 12.9*</p>  <p>METRIC CSK SOCKET</p> <p>SCSOPCM</p>	<p>Z/P ISO 7380 Class 12.9*</p>  <p>METRIC BUTTON HEAD SOCKET</p> <p>SBSOZCM</p>	<p>PLN ISO 7380 Class 12.9*</p>  <p>METRIC BUTTON HEAD SOCKET</p> <p>SBSOPCM</p>
<p>PLN ANSI B18.3 ASTM A574</p>  <p>UNC CAP SCREW SOCKET</p> <p>SHSOP</p>	<p>PLN BS 2470 ASTM A574</p>  <p>BSW CAP SCREW SOCKET</p> <p>SHSOPW</p>	<p>PLN ANSI B18.3 ASTM A574</p>  <p>UNF CAP SCREW SOCKET</p> <p>SHSOPF</p>	<p>PLN ANSI B18.3 Alloy Steel</p>  <p>UNC LOW HEAD SOCKET</p> <p>SLSOP</p>	<p>PLN ANSI B18.3 ASTM F835</p>  <p>UNC CSK SOCKET</p> <p>SCSOP</p>	<p>PLN BS 2470 ASTM F835</p>  <p>BSW CSK SOCKET</p> <p>SCSOPW</p>	<p>PLN ANSI B18.3 ASTM F835</p>  <p>UNF CSK SOCKET</p> <p>SCSOPF</p>
<p>PLN ANSI B18.3 ASTM F835</p>  <p>UNC BUTTON HEAD SOCKET</p> <p>SBSOP</p>	<p>PLN BS 2470 Class 12.9*</p>  <p>BSW BUTTON HEAD SOCKET</p> <p>SBSOPW</p>	<p>PLN ANSI B18.3 ASTM F835</p>  <p>UNF BUTTON HEAD SOCKET</p> <p>SBSOPF</p>	<p>PLN ISO 4029 Alloy Steel</p>  <p>METRIC PLN PT SOCKET</p> <p>SSSPCCM</p>	<p>PLN ISO 4029 Alloy Steel</p>  <p>METRIC KNURL CUP PT SOCKET</p> <p>SSSKPCM</p>	<p>PLN DIN 915 Alloy Steel</p>  <p>METRIC DOG PT SOCKET</p> <p>SSSDPCM</p>	<p>PLN ANSI B18.3 ASTM F912</p>  <p>UNC PLN PT SOCKET</p> <p>SSSPPC</p>
<p>PLN ANSI B18.3 ASTM F912</p>  <p>UNC KNURL CUP PT SOCKET</p> <p>SSSKP</p>	<p>PLN BS2470 Alloy Steel</p>  <p>BSW KNURL CUP PT SOCKET</p> <p>SSSKPW</p>	<p>PLN ANSI B18.3 ASTM F912</p>  <p>UNF KNURL CUP PT SOCKET</p> <p>SSSKPF</p>	<p>PLN ANSI B18.3 ASTM F912</p>  <p>UNF PLN PT SOCKET</p> <p>SSSPPF</p>	<p>PLN AS1112.1 Class 12</p>  <p>METRIC HEX NUT</p> <p>NH12PCM</p>	<p>PLN ANSI B18.3 Alloy Steel</p>  <p>UNC SHOULDER SOCKET</p> <p>SOSOPC</p>	<p>PLN ISO 7379 Class 12.9</p>  <p>METRIC SHOULDER SOCKET</p> <p>SOSOPCM</p>

Product Guide










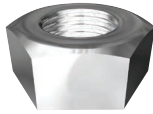
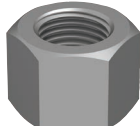
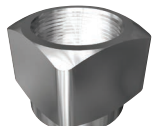
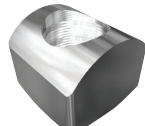
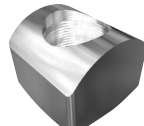


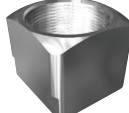


<p>PLN BS2470 Alloy Steel</p> <p>BSW SHOULDER SOCKET</p> <p>SOSOPW</p>	<p>PLN Alloy Steel</p> <p>NPTF PRESSURE PLUG HEX</p> <p>PPSOPN</p>	<p>PLN Alloy Steel</p> <p>BSP PRESSURE PLUG HEX</p> <p>PPSOPB</p>	<p>PLN Alloy Steel</p> <p>LEVEL SEAL PRESSURE PLUG HEX</p> <p>PPSOPL</p>	<p>PLN Alloy Steel</p> <p>METRIC PRESSURE PLUG HEX</p> <p>PPSOPTM</p>	<p>Z/P ISO 4029 Alloy Steel</p> <p>METRIC KNURL CUP PT SOCKET</p> <p>SSSKZCM</p>	<p>Z/P HEC</p> <p>SEL-LOCK SPRING PIN</p> <p>PLSOZ</p>
<p>PLN HEC ISO Class 10.9</p> <p>METRIC T-BOLT</p> <p>BTSOPCM</p>	<p>PLN HEC ISO Class 10.9</p> <p>BSW T-BOLT</p> <p>BTSOPW</p>	<p>PLN ANSI B18.3 Alloy Steel</p> <p>LONG ARM HEX WRENCH</p> <p>UXWL</p>	<p>PLN ANSI B18.3 Alloy Steel</p> <p>SHORT ARM HEX WRENCH</p> <p>UXWS</p>	<p>Reliable Precision High Tensile</p>		





Product Guide

Earthmoving

<p>PLN HEC Grade 9</p>  <p>UNC PLOW BOLT</p> <p>CBPG9PC</p>	<p>PLN HEC Grade 9</p>  <p>UNC STEPPED PLOW BOLT</p> <p>CBXG9PC</p>	<p>PLN HEC Grade 8</p>  <p>UNC PLOW BOLT</p> <p>CBPG8PC</p>	<p>PLN HEC Grade 9</p>  <p>METRIC FINE DOME HEX TRACK BOLT</p> <p>CBTG9DFM</p>	<p>PLN HEC Grade 9</p>  <p>UNF DOME HEX TRACK BOLT</p> <p>CBTG9DF</p>	<p>PLN HEC Grade 9</p>  <p>METRIC FINE HEX TRACK BOLT</p> <p>CBTG9HFM</p>	<p>PLN HEC Grade 9</p>  <p>UNF HEX TRACK BOLT</p> <p>CBTG9HF</p>
<p>PLN HEC Grade 8</p>  <p>UNC HEX PLOW NUT</p> <p>CNPG8PC</p>	<p>PLN HEC Grade 8</p>  <p>UNF HEX TRACK NUT</p> <p>CNTG8HF</p>	<p>PLN HEC Grade 8</p>  <p>METRIC FINE SQ COLLAR TRACK NUT</p> <p>CNTG8CFM</p>	<p>PLN HEC Grade 8</p>  <p>UNF SQ RND FACE TRACK NUT</p> <p>CNTG8RF</p>	<p>PLN HEC Grade 8</p>  <p>METRIC FINE SQ RND FACE TRACK NUT</p> <p>CNTG8RFM</p>	<p>PLN HEC Grade 8</p>  <p>UNF SQUARE TRACK NUT</p> <p>CNTG8QF</p>	<p>PLN HEC Grade 8</p>  <p>METRIC FINE SQUARE TRACK NUT</p> <p>CNTG8QFM</p>
<p>PLN HEC Grade 8</p>  <p>UNF SQ STEPPED TRACK NUT</p> <p>CNTG8SF</p>	<p>PLN HEC Grade 8</p>  <p>UNF HEX RND FACE TRACK NUT</p> <p>CNTG8EF</p>					

Product Guide

Petrochemical



STUD BOLT & NUT KITS – ASTM A193 / A194

PLN	Grade B7 / 2H	UNC	KSPB7PC
PLN	Grade B7 / 2H	UN8	KSPB7PU
HDG	Grade B7 / 2H	UNC	KSPB7GC

HDG	Grade B7 / 2H	UN8	KSPB7GU
XYB	Grade B7 / 2H	UNC	KSPB7BC
XYB	Grade B7 / 2H	UN8	KSPB7BU



STUD BOLT – ASTM A193

PLN	Grade B8 CL2	UNC	SP82PC
PLN	Grade B8 CL2	UN8	SP82PU
PLN	Grade B8M CL2	UNC	SPM2PC
PLN	Grade B8M CL2	UN8	SPM2PU
PLN	Grade B7	UNC	SPB7PC
PLN	Grade B7	UN8	SPB7PU
HDG	Grade B7	UNC	SPB7GC
HDG	Grade B7	UN8	SPB7GU

XYB	Grade B7	UNC	SPB7BC
XYB	Grade B7	UN8	SPB7BU
CAD	Grade B7	UNC	SPB7CC
CAD	Grade B7	UN8	SPB7CU
Z/P	Grade B7	UNC	SPB7ZC
Z/P	Grade B7	UN8	SPB7ZU
ZYP	Grade B7	UNC	SPB7YC
ZYP	Grade B7	UN8	SPB7YU



ALLTHREAD ROD – ASTM A193

PLN	Grade B7	UNC	APB7PC
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PLN	Grade B7	UN8	APB7PU
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HEAVY HEX NUT – ASTM A194

PLN	Grade 8	UNC	NPG8PC
PLN	Grade 8	UN8	NPG8PU
PLN	Grade 8M	UNC	NP8MPC
PLN	Grade 8M	UN8	NP8MPU
PLN	Grade 2H	UNC	NP2HPC
PLN	Grade 2H	UN8	NP2HPU
HDG	Grade 2H	UNC	NP2HGC
HDG	Grade 2H	UN8	NP2HGU

XYB	Grade 2H	UNC	NP2HBC
XYB	Grade 2H	UN8	NP2HBU
CAD	Grade 2H	UNC	NP2HCC
CAD	Grade 2H	UN8	NP2HCU
Z/P	Grade 2H	UNC	NP2HZC
Z/P	Grade 2H	UN8	NP2HZU
ZYP	Grade 2H	UNC	NP2HYC
ZYP	Grade 2H	UN8	NP2HYU



Hobson hold an **extensive range of L7 and B16 materials** ex-stock and source special materials on request.



UNC < 1 Inch

UN8 > 1 Inch

KEY

CAD: Cadmium

XYB: Xylan Blue



Product Guide

Stainless Hardware

SS 316 HEC  D SHACKLE STANDARD HS16DSM	SS 316 HEC  D SHACKLE CAPTIVE PIN HS16CPM	SS 316 HEC  D SHACKLE LONG HS16LGM	SS 304 HEC  D SHACKLE LIGHTWEIGHT HS04LWM	SS 316 HEC  D SHACKLE INTERNAL HEX PIN HS16HPM	SS 316 HEC  D SHACKLE WIDE MOUTH HS16WMM	SS 316 HEC  D SHACKLE BOW HS16BWM
SS 316 HEC  SHACKLE TWISTED HS16TWM	SS 316 HEC  D SHACKLE DOUBLE BAR HS16DBM	SS 316 HEC  SHACKLE REPLACEMENT PIN HXPINS	SS 316 HEC  SWIVEL EYE SNAP HSW16EP	SS 316 HEC  SWIVEL EYE + EYE HSW16EE	SS 316 HEC  SWIVEL JAW + JAW HSW16JJ	SS 316 HEC  SWIVEL EYE SNAP SHACKLE HSW16EK
SS 316 HEC  SWIVEL JAW SNAP SHACKLE HSW16JK	SS 304 HEC  S HOOK HHK04S	SS 316 HEC  SNAP HOOK CAST HHK16CP	SS 316 HEC  SPRING HOOK ASYMMETRIC HHK16SA	SS 316 HEC  SNAP HOOK SAFETY LATCH HHK16CL	SS 316 HEC  SNAP HOOK RIGID EYE HHK16CR	SS 316 HEC  SPRING HOOK HHK16SP
SS 316 HEC  SPRING HOOK EYE HHK16SE	SS 316 HEC  SPRING HOOK EYE & NUT HHK16SN	SS 316 HEC  PELICAN HOOK HHK16PEM	SS304 HEC  PAD EYE DIAMOND HEP04DI	SS304 HEC  PAD EYE OVAL HEP04OV	SS304 HEC  PAD EYE OBLONG HEP04OB	SS304 HEC  PAD EYE OBLONG RING HEP04OR

Product Guide

Stainless Hardware


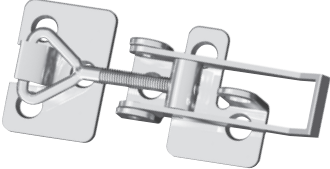








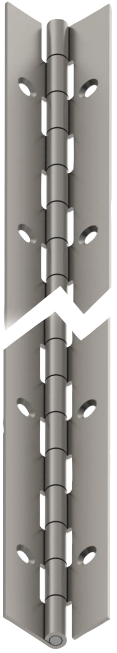

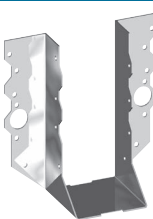







<div>SS304 HEC</div> <div></div> <div>PAD EYE ROUND BOLT</div> <div>HEP04RB</div>	<div>SS304 HEC</div> <div></div> <div>PAD EYE ROUND</div> <div>HEP04RD</div>	<div>SS304 HEC</div> <div></div> <div>PAD EYE ROUND OPEN</div> <div>HEP04RO</div>	<div>SS316 HEC</div> <div></div> <div>EYE NUT</div> <div>HEN16PM</div>	<div>SS 316 HEC</div> <div></div> <div>EYE BOLT KIT COLLAR</div> <div>HEC16KM</div>	<div>SS 316 HEC</div> <div></div> <div>LAG SCREW EYE COLLAR</div> <div>HES16CL</div>	<div>SS 304 HEC</div> <div></div> <div>EYE BOLT KIT</div> <div>HEB04PM</div>
<div>SS 316 HEC</div> <div></div> <div>EYE BOLT COLLAR</div> <div>HEC16PM</div>	<div>SS 316 HEC</div> <div></div> <div>U BOLT KIT ROUND</div> <div>KUR16PCM</div>	<div>SS 304 HEC</div> <div></div> <div>U BOLT KIT + PLATE CRIMP</div> <div>HUR04KPM</div>	<div>SS 316 HEC</div> <div></div> <div>U BOLT KIT SQUARE</div> <div>KUS16PCM</div>			
<div>SS 316 HEC</div> <div></div> <div>U BOLT KIT SQ WITH SPRING WASHER</div> <div>KUS16PSM</div>						



Product Guide

Stainless Hardware

<p>SS 316 HEC</p>  <p>CHAIN LINK REGULAR POLISHED</p> <p>HCH16LP</p>	<p>SS 304 HEC</p>  <p>TOGGLE LATCH ADJUSTABLE</p> <p>HLT04A</p>	<p>SS 316 HEC</p>  <p>PULLEY NYLON BLOCK</p> <p>HPB16RP</p>	<p>SS 316 HEC</p>  <p>PULLEY NYLON BLOCK SWIVEL</p> <p>HPB16BP</p>	<p>SS 304 HEC</p>  <p>WELDED RING DEE</p> <p>HRG04WD</p>	<p>SS 304 HEC</p>  <p>WELDED RING TRIANGLE</p> <p>HRG04WT</p>
	<p>SS 304 HEC</p>  <p>WELDED RING ROUND</p> <p>HRG04WR</p>	<p>SS 316 HEC</p>  <p>WELDED RING ROUND</p> <p>HRG16WR</p>	<p>SS 316 HEC</p>  <p>CHAIN LINK CLIP POLISHED</p> <p>HCH16LC</p>	<p>SS 316 HEC</p>  <p>CHAIN LINK QUICK POLISHED</p> <p>HCH16LQ</p>	<p>SS 316 HEC</p>  <p>MULTI-GRIP</p> <p>HGM16D</p>
		<p>SS 316 HEC</p>  <p>TRIPLE-GRIP LEFT HAND</p> <p>HGT16L</p>			
<p>SS 304 HEC</p>  <p>PIANO HINGE DRILLED</p> <p>HHP04D</p>	<p>SS 304 HEC</p>  <p>PIANO HINGE UNDRILLED</p> <p>HHP04U</p>	<p>SS 316 HEC</p>  <p>TRIPLE-GRIP RIGHT HAND</p> <p>HGT16R</p>	<p>SS 316 HEC</p>  <p>JOIST HANGER</p> <p>HHJ16D</p>	<p>SS 304 HEC</p>  <p>BUTT HINGE 4 HOLE FIXED PIN</p> <p>HHB04D-050</p>	<p>SS 304 HEC</p>  <p>BUTT HINGE 6 HOLE FIXED PIN</p> <p>HHB04D-075</p>
		<p>SS 304 HEC</p>  <p>BUTT HINGE 8 HOLE LOOSE PIN</p> <p>HHB04L</p>	<p>SS 304 HEC</p>  <p>HATCH HINGE EVEN</p> <p>HHH04E</p>	<p>SS 304 HEC</p>  <p>HATCH HINGE UNEVEN</p> <p>HHH04U</p>	<p>SS 316 HEC</p>  <p>HATCH HINGE EVEN</p> <p>HHH16E</p>
		<p>SS 316 HEC</p>  <p>HATCH HINGE UNEVEN</p> <p>HHH16U</p>			

Product Guide

Stainless Balustrade


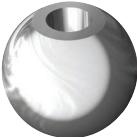
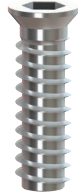










<div>SS 316 HEC</div> <div></div> <div>WIRE ROPE 1 x 19 RIGID HRW16119</div>	<div>SS 316 HEC</div> <div></div> <div>WIRE ROPE 7 x 7 WORKABLE HRW16707</div>	<div>SS 316 HEC</div> <div></div> <div>WIRE ROPE 7 x 7 PVC COATED HRW16707P</div>	<div>SS 316 HEC</div> <div></div> <div>WIRE ROPE 7 x 19 FLEXIBLE HRW16719</div>	<div>SS 316 HEC</div> <div></div> <div><div>WIRE ROPE 3.2mm 305m per roll</div><div>100m and 1000m rolls also available</div></div> <div>HRW16</div>		
	<div>SS 316 HEC</div> <div></div> <div>TERMINAL SWAGE FORK HTS16FK</div>	<div>SS 316 HEC</div> <div></div> <div>TERMINAL SWAGE FORK MINI TYPE HTS16FM</div>	<div>SS 316 HEC</div> <div></div> <div>TERMINAL SWAGE FORK TOGGLE HTS16FT</div>	<div>SS 316 HEC</div> <div></div> <div>TERMINAL SWAGE STUD MINI HTS16MT</div>	<div>SS 316 HEC</div> <div></div> <div>TERMINAL SWAGE EYE HTS16EY</div>	
	<div>Nickel Plate Copper HEC</div> <div></div> <div>MACHINE FERRULE HXFEM</div>	<div>Nickel Plate Copper HEC</div> <div></div> <div>HAND FERRULE HXFEH</div>	<div>SS 316 HEC</div> <div></div> <div>TERMINAL SWAGE BUTTON HEAD HTS16BH</div>	<div>SS 304 HEC</div> <div></div> <div>WIRE ROPE THIMBLE HXTH04</div>	<div>SS 304 HEC</div> <div></div> <div>SADDLE EYE STRAP HED04ST</div>	
	<div>SS 316 HEC</div> <div></div> <div>WIRE ROPE GRIP HXRW16G</div>	<div>SS 304 HEC</div> <div></div> <div>HEAD TENSIONER ALLEN KEY HXHT04AK</div>	<div>SS 304 HEC</div> <div></div> <div>HEAD TENSIONER HEX HEAD HXHT04HH</div>	<div>SS 304 HEC</div> <div></div> <div>CROSS CONNECTOR HXCC04</div>	<div>Nylon HEC</div> <div></div> <div>BLACK BUSH SPLIT TYPE HXNBB</div>	<div>Chrome Plate Brass HEC</div> <div></div> <div>BEVELLED WASHER HXWBBC</div>
			<div>SS 316 HEC</div> <div></div> <div>WIRE ROPE SHELF SUPPORT CLIP HXSS16</div>			



Product Guide

Stainless Balustrade

<div>SS 316 HEC</div> <div></div> <div>ROUND BALL INTERNAL THREAD</div> <div>HXRB16TM</div>	<div>SS 316 HEC</div> <div></div> <div>ROUND BALL</div> <div>HXRB16</div>			<div>SS 316 HEC</div> <div></div> <div>TIMBER INS CSK HEX SOCKET L/H</div> <div>HXTI16CLM</div>	<div>SS 316 HEC</div> <div></div> <div>TIMBER INS CSK HEX SOCKET R/H</div> <div>HXTI16CRM</div>
<div>SS 316 HEC</div> <div></div> <div>EYE SCREW METAL THREAD</div> <div>HES16PCM</div>	<div>SS 316 HEC</div> <div></div> <div>LAG EYE SCREW</div> <div>HES16PL</div>	<div>SS 316 HEC</div> <div></div> <div>CLEVIS REPLACEMENT PIN</div> <div>HXPINC</div>	<div>SS 316 HEC</div> <div></div> <div>RETAINING CLIP</div> <div>HXRC</div>	<div>MGAL HEC</div> <div></div> <div>SOCKET DRIVE</div> <div>HXSD</div>	<div>KEY</div> <div>CHR: Chrome</div> <div>HDG: Hot Dip Galvanised</div> <div>MGAL: Mechanical Galvanised</div> <div>PLN: Plain</div> <div>SS: Stainless Steel</div> <div>Z/P: Zinc Plated</div> <div>ZYP: Zinc Yellow Passivate</div>
<div>WIRE ROPE CUTTER</div> <div></div> <div>Suits up to 5mm wire rope</div> <div>HTHRC-008</div>	<div>WIRE ROPE CUTTER</div> <div></div> <div>Suits up to 12mm wire rope</div> <div>HTHRC-450</div>	<div>WIRE ROPE CUTTER</div> <div></div> <div>Suits up to 16mm wire rope</div> <div>HTHRC-800</div>	<div>Chrome Plate HEC</div> <div></div> <div>RIGGING SCREW SPANNER</div> <div>HXRSS</div>		
<div>CUTTING AND SWAGING COMBO</div> <div></div> <div>Suits up to 3.5mm wire rope</div> <div>HTHSC-350</div>	<div>CUTTING AND SWAGING COMBO</div> <div></div> <div>Suits up to 5.0mm wire rope</div> <div>HTHSC-600</div>	<div>CUTTING</div> <div></div>	<div>SWAGING</div> <div></div>		

Product Guide

Stainless Balustrade



SS 316 HEC	SS 316 HEC	SS 316 HEC	SS 316 HEC	SS 316 HEC	SS 316 HEC	SS 316 HEC
						
RIGGING SCREW LAG + SWAGE HRS16LS	TERMINAL SWAGE INT. THREAD HTS16IT	TERMINAL SWAGE LAG SCREW LEFT HTS16LL	TERMINAL SWAGE LAG SCREW RIGHT HTS16RL	TERMINAL SWAGE STUD RIGHT HAND HTS16ST	TERMINAL SWAGE STUD LEFT HAND HTS16SL	RIGGING SCREW EYE + EYE HRS16EE
SS 316 HEC	SS 316 HEC	SS 316 HEC	SS 316 HEC	SS 316 HEC	SS 316 HEC	SS 316 HEC
						
RIGGING SCREW JAW + JAW HRS16JJ	RIGGING SCREW JAW + SWAGE HRS16JS	RIGGING SCREW TOG + SWAGE HRS16TS	TURNBUCKLE OPEN BODY JAW + JAW HTB16JJ	TURNBUCKLE OPEN BODY HOOK + EYE HTB16HE	TURNBUCKLE OPEN BODY HOOK + HOOK HTB16HH	TURNBUCKLE OPEN BODY EYE + EYE HTB16EE



Product Guide

Stainless Fasteners

SS 304 DIN 975  METRIC ALLTHREAD 1m & 3m AL04PCM	SS 304 IFI 136C  UNC ALLTHREAD 3ft AL04PC	SS 304 AS 3501  BSW ALLTHREAD 3ft AL04PW	SS 316 DIN 975  METRIC ALLTHREAD 1m & 3m AL16PCM	SS 316 IFI 136C  UNC ALLTHREAD 3ft AL16PC	SS 316 IFI 136C  UNF ALLTHREAD 3ft AL16PF	SS 316 AS 3501  BSF ALLTHREAD 3ft AL16PS
SS 316 AS 3501  BSW ALLTHREAD 3ft AL16PW	SS 316 HEC  METRIC COUPLER HEX AXHC16PCM	SS 304 DIN 933  METRIC HEX SET SCREW BS04PCM	SS 316 DIN 933  METRIC HEX SET SCREW BS16PCM	SS 304 ANSI B18.2.1  UNC HEX SET SCREW BS04P	SS 316 ANSI B18.2.1  UNC HEX SET SCREW BS16PC	SS 304 ANSI B18.2.1 / B18.6.3  UNF HEX SET SCREW BS04PF
SS 304 BS 1083  BSW HEX SET SCREW BS04PW	SS 316 BS 1083  BSW HEX SET SCREW BS16PW	SS 304 DIN 931  METRIC HEX BOLT BH04PCM	SS 316 DIN 931  METRIC HEX BOLT BH16PCM	SS 304 ANSI B18.2.1  UNC HEX BOLT BH04PC	SS 316 ANSI B18.2.1  UNC HEX BOLT BH16PC	SS 304 ANSI B18.2.1  UNF HEX BOLT BH04PF
SS 316 BS 1083  BSW HEX BOLT BH16PW	SS 304 DIN 603  METRIC CUP HEAD SQUARE BC04PCM	SS 316 DIN 603  METRIC CUP HEAD SQUARE BC16PCM	SS 304 ANSI B18.5  UNC CUP HEAD SQUARE BC04PC	SS 316 DIN 571  METRIC COACH SCREW BH16PLM	SS 304 HEC  UNC HEX DOME ND04P	SS 304 DIN 1587  METRIC HEX DOME ND04PCM

Product Guide

Stainless Fasteners



SS 316 DIN 1587  METRIC HEX DOME ND16PCM	SS 304 HEC  METRIC 2PC DOME HEX NUT ND04WCM	SS 304 HEC  METRIC SHEAR NUT NS04PCM	SS 304 ISO 4161  METRIC SERRATED FLANGE NUT NF04PCM	SS 316 IFI-145  UNC SERRATED FLANGE NUT NF16PC	SS 304 DIN 929  METRIC WELD HEX NUT NH04WCM	SS 316 ANSI B18.2.2  UNC HEX NUT NH16P
SS 316 DIN 934  METRIC HEX NUT NH16PCM	SS 316 ANSI B18.2.2  UNF HEX NUT NH16PF	SS 316 BS1083  BSW HEX NUT NH16PW	SS 304 ANSI B18.2.2  UNC HEX NUT NH04P	SS 304 DIN 934  METRIC HEX NUT NH04PCM	SS 304 DIN 934  METRIC FINE HEX NUT NH04PFM	SS 304 ANSI B18.2.2  UNF HEX NUT NH04PF
SS 304 BS1083  BSW HEX NUT NH04PW	SS 304 ANSI B18.2.2  UNC THIN HEX LOCK NUT NL04PC	SS 304 DIN 439  METRIC THIN HEX LOCK NUT NL04PCM	SS 316 DIN 439  METRIC THIN HEX LOCK NUT NL16PCM	SS 316 ANSI B18.2.2  UNC THIN HEX LOCK NUT NL16PC	SS 316 ANSI B18.2.2  UNF THIN HEX LOCK NUT NL16PF	SS 304 HEC  METRIC FINE HOBLOCH™ HEX NUT NN04HFM
SS 304 HEC  METRIC HOBLOCH™ HEX NUT NN04HCM	SS 304 IFI-100/107 NYLOC  UNC NYLOC® NUT NN04P	SS 304 DIN 985 NYLOC  METRIC NYLOC® NUT NN04PCM	SS 304 HEC NYLOC  UNF NYLOC® NUT NN04PF	SS 304 HEC NYLOC  BSW NYLOC® NUT NN04PW	SS 304 HEC NYLOC  UNC NYLOC® NUT THIN NN04TC	SS 304 HEC NYLOC  UNF NYLOC® NUT THIN NN04TF



Product Guide

Stainless Fasteners

SS 316
IFI 100/107

NYLOC

UNC
NYLOC® NUT

NN16P

SS 316
DIN 985

NYLOC

METRIC
NYLOC® NUT

NN16PCM

SS 316
HEC

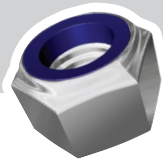
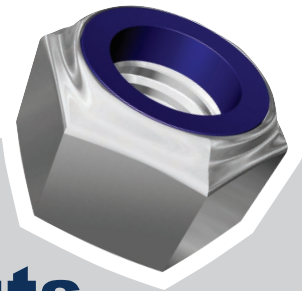
NYLOC

UNF
NYLOC® NUT

NN16PF

NYLOC®

Nylon insert locknuts



Anti-vibration solution.

SS 316
HEC

NYLOC

BSW
NYLOC® NUT

NN16PW

SS 316
DIN 557

METRIC
SQUARE NUT

NQ16PCM

SS 304
ANSI B18.7

UNC
WING NUT

NW04P

SS 304
ANSI B18.17

METRIC
WING NUT

NW04PCM

SS 316
ANSI B18.7

UNC
WING NUT

NW16P

SS 316
ANSI B18.17

METRIC
WING NUT

NW16PCM

SS 316
ANSI B18.17

BSW
WING NUT

NW16PW

SS 304
ANSI B18.3

UNC
BUTTON HEAD
SOCKET

SB04P

SS 304
ISO 7380

METRIC
BUTTON HEAD
SOCKET

SB04PCM

SS 316
ISO 7380

METRIC
BUTTON HEAD
SOCKET

SB16PCM

SS 304
ANSI B18.3

UNC
CSK FLAT
SOCKET

SC04P

SS 304
DIN 7991

METRIC
CSK FLAT
SOCKET

SC04PCM

SS 316
DIN 7991

METRIC
CSK FLAT
SOCKET

SC16PCM

SS 304
ANSI B18.3

UNC
CUP POINT
SOCKET

SG04P

SS 304
DIN 916

METRIC
CUP POINT
SOCKET

SG04PCM

SS 304
ANSI B18.3

UNC
SOCKET HEAD
CAP SCREW

SH04P

SS 304
DIN 912

METRIC
SOCKET HEAD
CAP SCREW

SH04PCM

SS 316
ANSI B18.3

UNC
SOCKET HEAD
CAP SCREW

SH16PC

SS 316
DIN 912

METRIC
SOCKET HEAD
CAP SCREW

SH16PCM

SS 304
ANSI B18.6.3

UNC
CSK HEAD
PHILLIPS

MS04CP

SS 304
DIN 965 (H)

METRIC
CSK HEAD
PHILLIPS

MS04CPM

Product Guide

Stainless Fasteners



SS 304 BS 450  BSW CSK HEAD PHILLIPS MS04CPW	SS 304 ANSI B18.6.3  UNF CSK HEAD PHILLIPS MS04CPF	SS 316 DIN 965 (H)  METRIC CSK HEAD PHILLIPS MS16CPM	SS 316 BS450  BSW CSK HEAD PHILLIPS MS16CPW	SS 304 DIN 963  METRIC CSK HEAD SLOT MS04CSM	SS 316 DIN 963  METRIC CSK HEAD SLOT MS16CSM	SS 304 DIN 84  METRIC CHEESE HEAD SLOT MS04ESM
SS 316 DIN 84  METRIC CHEESE HEAD SLOT MS16ESM	SS 304 ANSI B18.6.3  UNC PAN HEAD PHILLIPS MS04PP	SS 304 DIN 7985 (H)  METRIC PAN HEAD PHILLIPS MS04PPM	SS 304 BS 450  BSW PAN HEAD PHILLIPS MS04PPW	SS 304 ANSI B18.6.3  UNF PAN HEAD PHILLIPS MS04PPF	SS 316 DIN 7985 (H)  METRIC PAN HEAD PHILLIPS MS16PPM	SS 316 BS450  BSW PAN HEAD PHILLIPS MS16PPW
SS 304 BS 450  BSW ROUND HEAD SLOT MS04OSW	SS 316 BS 450  BSW ROUND HEAD SLOT MS16OSW	SS 304 AS 1427  METRIC MUSHROOM PHILLIPS MS04MPM	SS 304 BS 450  BSW MUSHROOM PHILLIPS MS04MPW	SS 304 ANSI B18.6.4  SELF TAPPING CSK HEAD PHILLIPS T04SSCP	SS 304 ANSI B18.6.4  SELF TAPPING CSK HEAD SQUARE DR T04SSCQ	SS 304 ANSI B18.6.4  SELF TAPPING PAN HEAD SQUARE DR T04SSPQ
SS 304 ANSI B18.6.4  PAN HEAD SELF TAPPING PHILLIPS T04SSPP	SS 316 ANSI B18.6.4  CSK HEAD SELF TAPPING PHILLIPS T16SSCP	SS 316 ANSI B18.6.4  PAN HEAD SELF TAPPING PHILLIPS T16SSPP	SS 410 ANSI B18.6.4  PAN HEAD SELF TAPPING PHILLIPS T41PSPP	SS 304 ANSI B18.6.4  TYPE U DRIVE SCREW QDS04RU	SS 304 JIS B1112  WOODSCREW CSK HEAD PHILLIPS T04DSCP	Security SS 304 HEC  SELF TAPPING SKT BUTTON POST TORX® I04SSBT



Product Guide





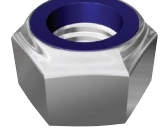

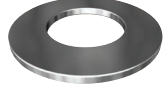
Stainless Fasteners

Security SS 304 HEC  SELF TAPPING SKT CSK POST TORX® I04SSCT	Security SS 304 HEC  SELF TAPPING SKT CSK POST HEX I04SSCH	Security SS 304 HEC  SELF TAPPING RAISED HEAD ONE WAY I04SSRO	Security SS 304 HEC  METRIC SKT BUTTON POST TORX® IMS04BTM	Security SS 304 HEC  METRIC SKT BUTTON POST HEX IMS04BHM	Security SS 304 HEC  METRIC SKT CSK POST TORX® IMS04CTM	Security SS 304 HEC  METRIC SKT CSK POST HEX IMS04CHM
Security PLN HEC  SECURITY SOCKET BIT POST HEX ISBPH	Security PLN HEC  SECURITY SOCKET BIT POST TORX ISBPT	Security PLN HEC  SECURITY SOCKET KEY POST HEX ISKPH	Security PLN HEC  SECURITY SOCKET KEY POST TORX ISKPT	SS 420 HEC  SPRING WAVE PIN QPW20PM	SS 304 DIN 94  METRIC SPLIT PIN QPS04PM	SS 316 HEC  LINCH PIN QPL16PM



Product Guide



SS 316 DIN 975 A4-80  METRIC NEPTUNEROD® AL16NCM	SS 316 DIN 931 A4-80  METRIC HEX BOLT BH16NCM	SS 316 DIN 933 A4-80  METRIC SET SCREW BS16NCM	SS 316 DIN 912 A4-80  METRIC SOCKET SCREW SH16NCM	SS 316 DIN 985 A4-80 NYLOC  METRIC NYLOC® NUT NN16NCM	SS 316 DIN 934 A4-80  METRIC HEX NUT NH16NCM	SS 316 DIN 125A A4-80  METRIC FLAT ROUND WASHER WR16NM
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Swedish Engineering

Product Guide

BUMAX®



Bumax®88 DIN 976  ALLTHREAD ROD ALB8PCM	Bumax®88 ISO 4014  HEX BOLT BHB8PCM	Bumax®88 ISO 4017  HEX SET SCREW BSB8PCM	Bumax®88 ISO 4762  SOCKET HEAD CAP SCREW SHB8PCM	Bumax®88 ISO 10642  FLAT SOCKET SCREW SCB8PCM	Bumax®88 ISO 4032  HEX NUT NHB8PCM	Bumax®88 ISO 4161  HEX FLANGE NUT NFB8PCM
Bumax®88 BUMAX  COLLARED HEX LOCK NUT NLB8CCM	Bumax®88 BUMAX  FLANGE HEX LOCK NUT NLB8FCM	Bumax®88 ISO 7089  METRIC FLAT ROUND WASHER WRB8PM	Bumax®88 ISO 7089 Geomet  METRIC FLAT ROUND WASHER WRB8EM	Bumax®88 ISO 7093  METRIC MUDGUARD WASHER WRB8MM	Bumax®88 DIN 931  UNC HEX BOLT BHB8PC	Bumax®88 ISO 4762  UNC SOCKET HEAD CAP SCREW SHB8PC
Bumax®88 DIN 934  UNC HEX NUT NHB8PC	Bumax®88 ISO 7089  IMPERIAL FLAT ROUND WASHER WRB8P	Bumax®109 ISO 4014  HEX BOLT BHB9PCM	Bumax®109 ISO 4017  HEX SET SCREW BSB9PCM	Bumax®109 ISO 4762  SOCKET HEAD CAP SCREW SHB9PCM	Bumax®109 ISO 4032  HEX NUT NHB9PCM	Bumax®109 ISO 7089  FLAT ROUND WASHER WRB9PM

BUMAX®

THE WORLD'S STRONGEST STAINLESS STEEL BOLT

- » Bumax® 88 tensile strength equivalent to Class 8.8. Class 10.9 available on request.
- » Unmatched corrosion resistance.
- » Guaranteed traceability. Test certificates online.
- » Lower install cost solution. Smaller Bolt with greater strength.
- » Low and High Temperature Applications (-200°C to +400°C).
- » Non Magnetic.





Product Guide

NORD-LOCK GROUP

Swedish Engineering

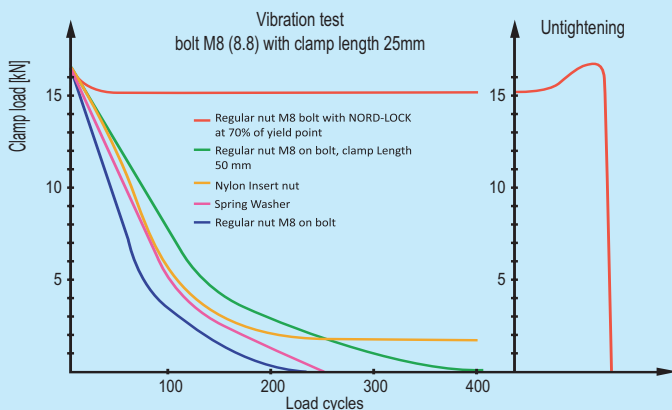


Delta Protekt® Hardened Steel EN 1.7182 METRIC STANDARD WASHER WNHTDDM	Delta Protekt® Hardened Steel EN 1.7182 IMPERIAL STANDARD WASHER WNHTDD	Delta Protekt® Hardened Steel EN 1.7182 METRIC LARGE OD WASHER WNHTLDM	Delta Protekt® Hardened Steel EN 1.7182 IMPERIAL LARGE OD WASHER WNHTLD	SS 316L AISI 316L EN 1.4404 METRIC STANDARD WASHER WN16DPM	SS 316L AISI 316L EN 1.4404 IMPERIAL STANDARD WASHER WN16DP	SS 316L AISI 316L EN 1.4404 METRIC LARGE OD WASHER WN16LPM
Nord-Lock 	Delta Protekt® Hardened Steel EN 1.7225 IMPERIAL X SERIES WASHER WNXTDD	Delta Protekt® Hardened Steel EN 1.7225 METRIC X SERIES WASHER WNXTDDM	SS 316L AISI 316L EN 1.4404 IMPERIAL LARGE OD WASHER WN16LP	Delta Protekt® Hardened Steel EN 1.7182 STANDARD WASHER KIT WNXAHT	SS 316L AISI 316L EN 1.4404 STANDARD WASHER KIT WNXASS	Delta Protekt® Class 10 METRIC WHEEL NUT NL10DNM

NORD-LOCK®

PART OF THE NORD-LOCK GROUP

- » Anti-vibration solution. Wedge-locking action meeting DIN25201 using tension not friction.
- » Zinc Plate coated (Delta Protekt®) and stainless steel. Large OD available.
- » Laser traceability on each product.
- » Wheel nut safety. M22-1.5 pitch.



SUPERBOLT™

PART OF THE NORD-LOCK GROUP

Superbolt™ multi-jackbolt tensioners (MJTs) from Nord-Lock offer an innovative technology for tightening bolts & studs

The multi-jackbolt tensioners offer you simple and cost effective tightening for large size bolts.



Superbolt™ tensioners are designed as direct replacements for conventional nuts and bolts. These devices can be threaded onto a new or existing bolt, stud, threaded rod or shaft. The main thread serves to position the tensioner on the bolt or stud against the hardened washer and the load bearing surface. Once it is positioned, actual tensioning of the bolt or stud is accomplished with simple hand tools by torquing the jackbolts which encircle the main thread. The jackbolts transfer the preload evenly into the main thread and, consequently, onto the joint. The main thread is tightened in pure tension.



German Engineering

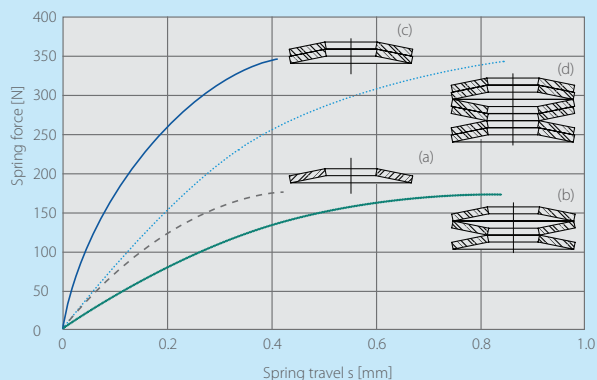
Product Guide SCHNORR®



PLN DIN 2093 DISC SPRING WOHTDP	MGAL DIN 2093 DISC SPRING WOHTDG	SS 304 DIN 2093 DISC SPRING WO04DP	Z/P Serrated TYPE S SAFETY WASHER WOHTSZM	PLN Serrated TYPE S SAFETY WASHER WOHTSPM	Z/P Serrated TYPE VS SAFETY WASHER WOHTVZM	PLN Serrated TYPE VS SAFETY WASHER WOHTVPM
SS 304 Serrated TYPE S SAFETY WASHER WO04SPM	SS 304 Serrated TYPE VS SAFETY WASHER WO04VPM	Z/P DIN 6796 HDS LOAD HEAVY DUTY WASHER WOHTHZM	PLN DIN 6796 HDS LOAD HEAVY DUTY WASHER WOHTHPM	ZYP 25µm DIN 6796 HDS LOAD HEAVY DUTY WASHER WOHTHYM	Z/P DIN 267 HS LOAD HIGH STRESS WASHER WOHTLZM	PLN DIN 267 HS LOAD HIGH STRESS WASHER WOHTLPM

SCHNORR® DISC SPRING ENGINEERING

SCHNORR® is an international leader in the engineering and manufacturing of safety washers and disc springs for the automotive, aerospace and machine construction industries.

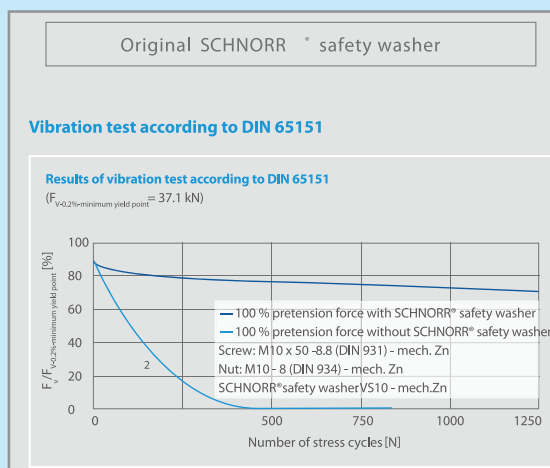


Disc Springs:

- » Space saver with high spring force.
- » No setting or fatigue under normal loads.
- » Long service life.

Safety Washers:

- » High resistance to vibration.
- » Patented technology.
- » Extensive range.



Geomet 321B
DIN 267



HS LOAD
HIGH STRESS
WASHER
WOHTLEM

PLN
Type K
Non-slotted



BEARING
PRELOAD
SPRING
WOHTKP



Product Guide

Washers

Red Fibre HEC  METRIC FLAT ROUND WRRFPM	Z/P AS1237:1973 Mild Steel  METRIC ENGINEERS WASHER WEMSZM	HDG HEC Mild Steel  METRIC FLAT ROUND WRMSGM	Z/P HEC Mild Steel  METRIC FLAT ROUND WRMSZM	PLN HEC Mild Steel  METRIC FLAT ROUND WRMSPM	Z/P HEC Mild Steel  IMPERIAL FLAT ROUND WRMSZ	ZYP DIN 125A Mild Steel  METRIC FLAT ROUND WRMSYM
SS 304 HEC  METRIC FLAT ROUND WR04PM	SS 304 DIN 125A  METRIC FLAT ROUND WR04TM	SS 304 HEC  IMPERIAL FLAT ROUND WR04P	SS 316 HEC  METRIC FLAT ROUND WR16PM	SS 316 DIN 125A  METRIC FLAT ROUND WR16TM	SS 316 HEC  IMPERIAL FLAT ROUND WR16P	Brass HEC BS 3410  IMPERIAL FLAT ROUND WRBRP
HDG AS1237.1-2002 Mild Steel  METRIC X LARGE FLAT ROUND WXMSGM	Z/P AS1237.1-2002 Mild Steel  METRIC X LARGE FLAT ROUND WXMSZM	Z/P AS 1237.1-2002 Mild Steel  METRIC PANEL WPMSZM	Z/P HEC Mild Steel  IMPERIAL MUDGUARD WRMSZU	SS 304 DIN 9021  METRIC MUDGUARD WR04MM	SS 316 DIN 9021  METRIC MUDGUARD WR16MM	Brass HEC AS 1237  METRIC FLAT ROUND WRBRPM
Z/P HEC Mild Steel  LARGE FLAT RND SUPA® WASHER WRMSZLM	PLN HEC Mild Steel  LARGE FLAT RND SUPA® WASHER WRMSPLM	HDG HEC Mild Steel  LARGE FLAT RND SUPA® WASHER WRMSGLM	SS 304 ANSI B18.21.1  IMPERIAL SPRING FLAT SECTION WR04S0	SS 304 HEC 127B  METRIC SPRING FLAT SECTION WR04SM	SS 316 ANSI B18.21.1  IMPERIAL SPRING FLAT SECTION WR16S	SS 316 HEC 127B  METRIC SPRING FLAT SECTION WR16SM

Product Guide

Washers

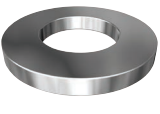
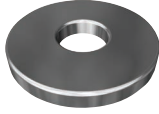



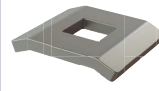


HDG HEC 127B Mild Steel  METRIC SPRING FLAT SECTION WRMSGSM	Z/P HEC 127B Mild Steel  METRIC SPRING FLAT SECTION WRMSZSM	ZYP HEC 127B Mild Steel  METRIC SPRING FLAT SECTION WRMSYSM	HDG HEC 7980 Mild Steel  IMPERIAL SPRING SQ SECTION WRMSGSQ	Z/P HEC 7980 Mild Steel  METRIC SPRING SQ SECTION WRMSZSQM	ZYP HEC 7980 Mild Steel  METRIC SPRING SQ SECTION WRMSYSQM	Z/P ANSI B18.21.1 Mild Steel  IMPERIAL SPRING FLAT SECTION WRMSZS
Z/P ANSI B18.21.1 Mild Steel  IMPERIAL SPRING SQ SECTION WRMSZSQ	Z/P IFI 532 Type A  LOCK INTERNAL TOOTH WLMSZTIM	Z/P IFI 532 Type A  LOCK EXTERNAL TOOTH WLMSZTEM	Z/P ASME B18.21.1 Type A  LOCK INTERNAL TOOTH WLMSZTI	Z/P ASME B18.21.1 Type A  LOCK EXTERNAL TOOTH WLMSZTE	SS 316 DIN 6798 Type A  LOCK EXT SERR TOOTH WL16SEM	SS 304 DIN 6797 Type J  LOCK INTERNAL TOOTH WL04TIM
SS 304 DIN 6797 Type A  LOCK EXTERNAL TOOTH WL04TEM	SS 304 DIN 6798 Type J  LOCK INT SERR TOOTH WL04SIM	SS 304 DIN 6798 Type A  LOCK EXT SERR TOOTH WL04SEM	SS 304 HEC  CUP WASHER WR04C	SS 304 HEC  METRIC BELLEVILLE WASHER WR04BM	SS 316 HEC  METRIC SQUARE WS16PM	HDG HEC Mild Steel  METRIC SQUARE WSMSGM
ZYP HEC Mild Steel  METRIC SQUARE WSMSYM	HOBKOTE® HEC Mild Steel  METRIC SQUARE WSMSHM	HDG HEC Mild Steel  SQUARE WASHER SQUARE HOLE WSMSGQ	PLN HEC 38-45 HRC  METRIC FLAT ROUND SAMPSON™ WR43PM	Z/P ASTM F436M 38-45 HRC  METRIC FLAT ROUND SAMPSON™ WR43ZM	PLN ASTM F436 38-45 HRC  IMPERIAL FLAT ROUND SAMPSON™ WR43P	ZYP ASTM F436 38-45 HRC  IMPERIAL FLAT ROUND SAMPSON™ WR43Y



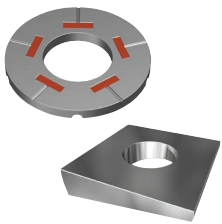
Product Guide

Washers

Xylan Blue HEC 38-45 HRC	HDG AS 1237 26-45 HRC	PLN HEC 43-49 HRC	ZYP HEC 43-49 HRC	PLN AS 1085.7	HDG HEC Mild Steel	KEY
						CHR: Chrome HDG: Hot Dip Galvanised MGAL: Mechanical Galvanised PLN: Plain SS: Stainless Steel Z/P: Zinc Plated ZYP: Zinc Yellow
IMPERIAL FLAT ROUND SAMPSON™ WR43B	METRIC FLAT ROUND HARDENED WRHTGM	IMPERIAL FLAT ROUND WRH9P	IMPERIAL FLAT ROUND WRH9Y	FISHBOLT SPRING WASHER DWRHTPSM	METRIC SECURITY MESH CLIP HWCMSGM	

Other Washers

Hobson Engineering have a wide variety of specialised Washers, more of which can be found here:



Structural



p10



Bumax



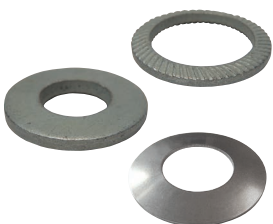
p31



Nord-Lock



p32



Schnorr



p33

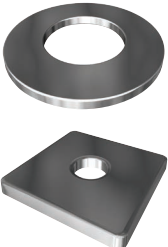

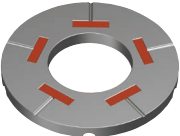
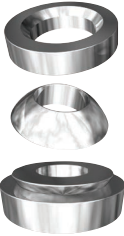





Washers Gauge Converter

gauge no.	inch	mm
8	0.1570"	3.988
9	0.1398"	3.551
10	0.1250"	3.175
12	0.0991"	2.517
14	0.0785"	1.994
16	0.0625"	1.588
18	0.0495"	1.257
19	0.0420"	1.0668
20	0.0350"	0.8890
21	0.0320"	0.8128
22	0.0290"	0.7366
30	0.0123"	0.3124

Technical info Washers



Types of Washers

	<p>Standard Washers</p> <p>A standard washer is a thin plate typically round or square with a hole that is normally in the centre. They are used for two main reasons:</p> <ol style="list-style-type: none"> 1. To minimise scouring or scratch damage to mating material as a result of nut rotation. 2. To increase the effective bearing surface of the bolt and or nut. That is, to distribute the load of a threaded fastener over a larger area and prevent deformation of the bearing surfaces. 		<p>Belleville Washer</p> <p>A Belleville washer, also known as a coned-disc spring or conical washer and cupped spring washer, is a type of spring shaped like a washer. It has a frusto-conical shape which gives the washer a spring characteristic. The Belleville name comes from the inventor Jullian F. Belleville. In the initial tightening, the effect on the joint is similar to a split type spring washer. However, as the tightening continues and the washer is flattened, it actually reduces the applied load in the bolt assembly. In this way, if the joint is loosened, the load will increase and hence counteract the loosening of the joint.</p> <p>Multiple Belleville washers may be stacked to modify the spring constant or amount of deflection.</p>
	<p>Squirter Washers (DTIs)</p> <p>Direct tension indicating (DTI) washers are used to ensure the required pre-load tension in a joint is achieved. They are hardened washers with protruding lugs or bumps on the bearing face. When the bolt assembly is tightened, these lugs are deformed to a prescribed level and hence indicate that the required tension in the assembly has been achieved. During the lug deformation process, silicone is squeezed out, giving a visible sign of correct tension in the bolt assembly.</p>		<p>Spherical Washers</p> <p>Spherical washers are designed to accommodate a 10-15 degree variation in the alignment of a joint. A cone washer fits inside a cup washer and they slide against each other to reduce bending stresses in the bolt. One application for these washers is in racing kart seats where the chassis twists dramatically.</p>
	<p>Load Indicating Washers (LIWs)</p> <p>Work much the same as Squirter Washers (DTIs) minus the silicone process.</p>		<p>Lock Washers</p> <p>A toothed lock washer, also known as a star washer, has teeth or prongs which extend radially inward and/or outward. This maintains tension and opposes any loosening influence on the fastener. The flexed teeth absorb shock, vibration and slipping. These washers are designed to retain fasteners by achieving an increased friction between the fastener and the mating material through mechanical interlocking or interference. They also provide some tension, as with spring washers but at a vastly reduced magnitude. There are two main types, teeth twisted out of plane (Type A) and edges of the teeth folded in opposite directions (Type B).</p>
	<p>Split type</p> <p>Developed 110 years ago, the split type spring washer was the first washer that offered a solution to the loosening of bolted assemblies. These are hardened washers that are split with out of plane deformations. They should be used under the head of the bolt with the assembly being tensioned by rotating the nut. If they need to be used on the nut side, another hardened flat round washer should be used between the nut and the split washer.</p> <p>When the washers are flattened, a prescribed tension is achieved in the assembly. Naturally, these washers do not indicate any over-tightening of the bolt assembly. The split-lock washers are made from hardened spring steel that strongly resists compression. When the threaded fasteners are tightened, the protruding corner edges of the split-lock washers bite into both compressing surfaces in a manner that resists counter-clockwise rotation to vibration in a manner similar to a ratchet.</p>		<p>Lock Washers – 2 piece type (Nord-Lock)</p> <p>Two piece lock washers that are designed to prevent bolt assemblies loosening through vibration. They consist of two disks with interposing ramps. "Sharp ridges on the upper and lower surfaces of the disks grab the nut and joint surfaces. If the nut backs off a little it drags its disc along with it; the ramps on its disk climb the ramps on the lower disk. The interaction of these ramp or cam surfaces prevent loss of tension in the bolt"².</p>
	<p>Spring Washers</p> <p>"Threaded assemblies inherently involve the mating of inclined planes under load. These inclined planes consist of the lead and flank angle of the screw or bolt thread and the angle of the mating thread in the nut plate. There is a natural tendency for these mating threads to slide "downhill" until tension is lost in an assembly. If assembled materials are soft or yield under load, or if thermocycling causes expansion and contraction of the materials, essential tension dissipates fairly quickly"¹. There are various types of spring washers that are designed to prevent loosening of bolted assemblies.</p>		

References:

Ajax technical note AFI/02/007

¹ Charles F Jacobs. American Fastener Journal 1997

² An Introduction to the design and behaviour of bolted joints. John H Bickford Nuts, Bolts, Fasteners and Plumbing Handbook. Carroll Smith Wikipedia



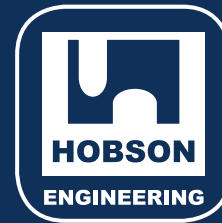
Product Guide




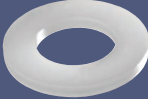
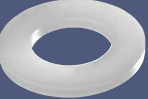
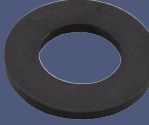

Nylon

<p>Natural Nylon HEC</p>  <p>UNC HEX SET SCREW</p> <p>BS66PC</p>	<p>Natural Nylon DIN933</p>  <p>METRIC HEX SET SCREW</p> <p>BS66PCM</p>	<p>Natural Nylon HEC</p>  <p>UNC HEX BOLT</p> <p>BH66PC</p>	<p>Natural Nylon DIN 931</p>  <p>METRIC HEX BOLT</p> <p>BH66PCM</p>	<p>Natural Nylon DIN963</p>  <p>METRIC CSK SLOT SCREW</p> <p>MS66CSM</p>	<p>Natural Nylon HEC</p>  <p>UNC CSK SLOT SCREW</p> <p>MS66CS</p>	<p>Natural Nylon DIN84</p>  <p>METRIC CHEESE SLOT SCREW</p> <p>MS66ESM</p>
<p>Natural Nylon HEC</p>  <p>UNC ROUND SLOT SCREW</p> <p>MS66OS</p>	<p>Natural Nylon HEC</p>  <p>UNC SLOT FILLISTER SCREW</p> <p>MS66LS</p>	<p>Natural Nylon DIN316</p>  <p>METRIC WING SCREW</p> <p>MS66PWM</p>	<p>Natural Nylon DIN7985</p>  <p>BINDER HEAD PHILLIPS SCREW</p> <p>MS66BPM</p>	<p>Natural Nylon DIN913</p>  <p>METRIC HEX SOCKET GRUB SCREW</p> <p>SG66PCM</p>	<p>Natural Nylon DIN551</p>  <p>SLOTTED SOCKET GRUB SCREW</p> <p>SG66PSM</p>	<p>Natural Nylon DIN912</p>  <p>METRIC SOCKET HEAD CAP SCREW</p> <p>SH66PCM</p>
<p>Natural Nylon HEC</p>  <p>UNC ALLTHREAD ROD</p> <p>AN66PC</p>	<p>Natural Nylon DIN975</p>  <p>METRIC ALLTHREAD ROD</p> <p>AN66PCM</p>	<p>Natural Nylon HEC</p>  <p>UNC HEX NUT</p> <p>NH66P</p>	<p>Natural Nylon DIN934</p>  <p>METRIC HEX NUT</p> <p>NH66PCM</p>	<p>Nylon Black UV Stable HEC</p>  <p>METRIC HEX THIN NUT</p> <p>NL66UCM</p>	<p>Natural Nylon HEC</p>  <p>UNC WING NUT</p> <p>NW66PC</p>	<p>Natural Nylon DIN315</p>  <p>METRIC WING NUT</p> <p>NW66PCM</p>
<p>Natural Nylon HEC</p>  <p>UNC DOME HEX NUT</p> <p>ND66P</p>	<p>Natural Nylon Form A</p>  <p>METRIC DOME HEX NUT</p> <p>ND66PAM</p>	<p>Natural Nylon DIN1587</p>  <p>METRIC DOME HEX NUT</p> <p>ND66PCM</p>	<p>Natural Nylon HEC</p>  <p>METRIC HEX FLANGE NUT</p> <p>NF66PCM</p>	<p>Natural Nylon HEC</p>  <p>SPACER ROUND</p> <p>SR66P</p>	<p>Nylon Black UV Stable HEC</p>  <p>SPACER ROUND</p> <p>SR66U</p>	<p>Natural Nylon HEC</p>  <p>METRIC SCREW INSULATOR</p> <p>WB66PIM</p>

Product Guide

Nylon



Natural Nylon Flat Round + Taper  METRIC ANTI-LOSS WASHER WR66PAM	Natural Nylon HEC  METRIC CUP WASHER WR66PCM	Natural Nylon Locking + Sealing  METRIC HUBO™ WASHER WR66PHM	Natural Nylon HEC  METRIC FLAT ROUND WASHER WR66PM	Natural Nylon HEC  IMPERIAL FLAT ROUND WASHER WR66P	Nylon Black UV Stable HEC  METRIC WASHER WR66UM	Natural Nylon HEC  METRIC HOLDING WASHER WR66POM
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Natural Nylon HEC  BUSHING WASHER WB66PSM
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Resistance Chart

	Good Resistance
	Limited Resistance
	Not Resistant

Types of Polymer

Glass Fibre Reinforced Nylon (GFR PA6.6):

Same properties as PA6.6 with enhanced mechanical properties of tensile strength, fatigue strength, impact strength, friction and abrasion resistance.

Polypropylene (PP)

Polypropylene is very resistant to fatigue and complies with food standards. A major use is in piping systems where rigidity and resistance to corrosion and chemical leaching are required.

Polyethylene (PE)

Is the most widely used plastic in the world with annual production of approximately 80 million tonnes and is used extensively in packaging applications such as foam, shrink wrapping and plastic bags.

Polycarbonate (PC)

It is a very durable transparent material with high impact resistance but low scratch resistance.

Polyvinylidene Fluoride (PVDF)

Is a highly non-reactive thermoplastic fluoropolymer. It has excellent resistance to solvents and acids.

Acetal (POM)

Acetal resins are odourless, tasteless and non-toxic. Acetal is widely used in the automotive, electrical, machinery, equipment and watch making industries.

Polyamide Nylon (PA, PA6.6, 66)

Is the standard polymer used in the Hobson range of fasteners and is recognised worldwide for being the most suitable material for fasteners. It offers excellent filling qualities and hence is easily moulded even into very difficult long shapes such as threaded rod.

It provides good toughness, tensile strength and resistance to creep, particularly in the high temperature range. Nylon has excellent wear properties, low coefficient of friction and exceptional chemical resistance to aromatic hydrocarbons, greases and oils.

Nylon is a hygroscopic material which has a tendency to absorb water or moisture from the surrounding environment. The amount of absorption will depend on the environmental conditions. When water or moisture is absorbed by Nylon, it behaves like a plasticizer in plastics reducing the tensile strength, stiffness; and increasing elongation, impact strength and energy absorbing characteristics.





























Outdoor weathering can be improved by the addition of carbon black. Nylon will perform well in long range service in most applications. Nylon is a translucent to off white in colour. Depending on the raw material used, there will always be slight colour differences from bright white to a very dull off white to light grey.

PVDF	PC	PA6 / 6.6 / 66	PP	POM	PE - LD	PE - HD	Material
							Substances
							Cold Water
							Hot Water
							Diluted acid
							Concentrated acid
							Oxidized acid
							Hydrofluoric acids
							Diluted potassium
							Concentrated potassium
							Inorganic bases
							Dry halogen
							Hydrocarbons
							Hydrocarbons (chlorinated)
							Alcohols
							Ester
							Ketone
							Ether
							Aldehyde
							Amino acids
							Organic acids
							Aromatic hydrocarbons
							Petrol
							Mineral oils
							Greases and oils
							Hydrocarbons (non-saturated chlorinated)
							Oil of turpentine
0.03	0.1 - 0.2	1.3 - 1.9	0.01 - 0.03	0.22 - 0.25	<0.01	<0.01	Humidity absorption % to ASTM d 570



Product Guide

Commercial

<p>HDG AS 1111.1 Class 4.6</p>  <p>METRIC HEX BOLT & NUT KBH46GCM</p>	<p>Z/P AS 1111.1 Class 4.6</p>  <p>METRIC HEX BOLT & NUT KBH46ZCM</p>	<p>PLN AS 1111.1 Class 4.6</p>  <p>METRIC HEX BOLT & NUT KBH46PCM</p>	<p>HDG AS 2451 Mild Steel</p>  <p>BSW HEX BOLT & NUT KBHMSGW</p>	<p>Z/P AS 2451 Mild Steel</p>  <p>BSW HEX BOLT & NUT KBHMSZW</p>	<p>Z/P AS 1111.1 Class 4.6</p>  <p>METRIC HEX BOLT BH46ZCM</p>	<p>Z/P AS 2451 Mild Steel</p>  <p>BSW HEX BOLT BHMSZW</p>
<p>PLN AS 2451 Mild Steel</p>  <p>BSW HEX BOLT BHMSZW</p>	<p>HDG AS 1111.2 Class 4.6</p>  <p>METRIC HEX SET SCREW BS46GCM</p>	<p>Z/P AS 1111.2 Class 4.6</p>  <p>METRIC HEX SET SCREW BS46ZCM</p>	<p>PLN AS 1111.2 Class 4.6</p>  <p>METRIC HEX SET SCREW BS46PCM</p>	<p>Z/P AS 2451 Mild Steel</p>  <p>BSW HEX SET SCREW BSMSZW</p>	<p>HDG AS 1390 Class 4.6</p>  <p>METRIC CUP HEAD BOLT & NUT KBC46GCM</p>	<p>Z/P AS 1390 Class 4.6</p>  <p>METRIC CUP HEAD BOLT & NUT KBC46ZCM</p>
<p>PLN AS 1390 Class 4.6</p>  <p>METRIC CUP HEAD BOLT & NUT KBC46PCM</p>	<p>Z/P HEC AS 2451</p>  <p>BSW CUP HEAD BOLT & NUT KBCMSZW</p>	<p>HDG AS 1393 Class 4.6</p>  <p>METRIC HEX COACH BH46GLM</p>	<p>Z/P AS 1393 Class 4.6</p>  <p>METRIC HEX COACH BH46ZLM</p>	<p>HDG AS 1111.1 Class 4.6</p>  <p>METRIC LONG THREAD ASSEMBLED KBX46GCM</p>	<p>HDG HEC Class 4.6</p>  <p>PURLIN HEX FLANGE BOLT & NUT KBFMSGCM</p>	<p>Z/P HEC Class 4.6</p>  <p>PURLIN HEX FLANGE BOLT & NUT KBFMSZCM</p>
<p>Z/P HEC Class 4.6</p>  <p>PURLIN HEX 2 WASHERS BOLT & NUT KBHMSZCM</p>	<p>HDG HEC Class 4.6</p>  <p>FASCIA HEX WASHER BOLT & NUT KBAMSGCM</p>	<p>Z/P HEC Class 4.6</p>  <p>FASCIA HEX WASHER BOLT & NUT KBAMSZCM</p>	<p>Z/P HEC Class 4.6</p>  <p>SHOULDER PURLIN HEX BOLT & NUT KBOMSZCM</p>	<p>Z/P AS 1427:1996 Mild Steel</p>  <p>METRIC METAL THREAD PAN PHIL MSMSZPPM</p>	<p>Zinc Black AS 1427:1996 Mild Steel</p>  <p>METRIC METAL THREAD PAN PHIL MSMSVPPM</p>	<p>Z/P AS 1427:1996 Mild Steel</p>  <p>METRIC METAL THREAD CSK PHIL MSMSZCPM</p>

Product Guide

NYLOC® Commercial



<div>HDG AS 1112.3 Class 5</div> <div></div> <div>METRIC HEX NUT</div> <div>NH05GCM</div>	<div>Z/P AS1112.3 Class 5</div> <div></div> <div>METRIC HEX NUT</div> <div>NH05ZCM</div>	<div>PLN AS 1112.3 Class 5</div> <div></div> <div>METRIC HEX NUT</div> <div>NH05PCM</div>	<div>HDG AS 2451</div> <div></div> <div>BSW HEX NUT</div> <div>NHMSGW</div>	<div>Z/P AS 2451</div> <div></div> <div>BSW HEX NUT</div> <div>NHMSZW</div>	<div>PLN AS 2451</div> <div></div> <div>BSW HEX NUT</div> <div>NHMSPW</div>	<div>PLN AS1112.3 Class 5</div> <div></div> <div>METRIC LEFT HAND HEX NUT</div> <div>NH05PDM</div>
<div>MGAL DIN 985 Class 6</div> <div></div> <div>METRIC NYLOC® NUT</div> <div>NN06GCM</div>	<div>Z/P DIN 985 Class 6</div> <div></div> <div>METRIC NYLOC® NUT</div> <div>NN06ZCM</div>	<div>MGAL IFI-100NE Grade 2</div> <div></div> <div>BSW NYLOC® NUT</div> <div>NNG2GW</div>	<div>Z/P IFI-100NE Grade 2</div> <div></div> <div>BSW NYLOC® NUT</div> <div>NNG2ZW</div>	<div>Z/P IFI-100NE Grade 2</div> <div></div> <div>UNC NYLOC® NUT</div> <div>NNG2ZC</div>	<div>PLN HEC Class 5</div> <div></div> <div>ACME 6 TPI HEX NUT</div> <div>NHMSPA</div>	<div>PLN HEC Class 5</div> <div></div> <div>ACME 6 TPI LEFT HAND HEX NUT</div> <div>NHMSPB</div>
<div>Brass AS 1112</div> <div></div> <div>METRIC HEX NUT</div> <div>NHBRPCM</div>	<div>Brass HEC</div> <div></div> <div>UNC HEX NUT</div> <div>NHBRPC</div>	<div>Brass AS 2451</div> <div></div> <div>BSW HEX NUT</div> <div>NHBRPW</div>	<div>HDG AS 1112.4 Use with Class 5</div> <div></div> <div>METRIC THIN HEX LOCK NUT</div> <div>NL05GCM</div>	<div><div>Hex Nut</div><div>Thin Hex Lock Nut NL05GCM</div><div>Washer</div></div>		
<div>HDG DIN 1587 Class 5</div> <div></div> <div>METRIC DOME HEX NUT</div> <div>ND05GCM</div>	<div>CHR DIN 1587 Class 5</div> <div></div> <div>METRIC DOME HEX NUT</div> <div>ND05CCM</div>	<div>HDG HEC Class 5</div> <div></div> <div>METRIC SHEAR NUT</div> <div>NS05GCM</div>	<div><div>NYLOC®</div><div>Nylon insert locknuts</div><div></div></div> <div>Anti-vibration solution.</div>			



Product Guide















Low-Tensile

<p>Z/P DIN 975 Class 4.6</p>  <p>METRIC ALLTHREAD</p> <p>ASMSZCM</p>	<p>HDG DIN 975 Class 4.6</p>  <p>METRIC ALLTHREAD</p> <p>ASMSGCM</p>	<p>HDG DIN 975 Class 4.6</p>  <p>METRIC FOUNDATION STUD</p> <p>ASMSGCM</p>	<p>PLN DIN 975 Class 4.6</p>  <p>METRIC ALLTHREAD 1m & 3m</p> <p>ASMSPCM</p>	<p>PLN DIN 975 Class 4.6</p>  <p>METRIC ALLTHREAD LEFT HAND</p> <p>ASMSPDM</p>	<p>PLN DIN 975 Class 4.6</p>  <p>METRIC FINE ALLTHREAD 1m</p> <p>ASMSPFM</p>	<p>Z/P AS 2451 Mild Steel</p>  <p>BSW ALLTHREAD</p> <p>ASMSZW</p>
<p>PLN HEC Grade 1</p>  <p>ACME 6 TPI ALLTHREAD 12ft</p> <p>ASMSPA</p>	<p>PLN HEC Grade 1</p>  <p>ACME 6 TPI ALLTHREAD LEFT HAND 12ft</p> <p>ASMSPB</p>	<p>PLN AS 2451 Mild Steel</p>  <p>BSW ALLTHREAD</p> <p>ASMSPW</p>	<p>PLN AS 2451 Mild Steel</p>  <p>BSW ALLTHREAD LEFT HAND</p> <p>ASMSPX</p>	<p>PLN IFI 136C Grade 1</p>  <p>UNC ALLTHREAD 3ft</p> <p>ASMSPC</p>	<p>PLN IFI 136C Grade 1</p>  <p>UNF ALLTHREAD 3ft</p> <p>ASMSPF</p>	<p>PLN AS 2451 Mild Steel</p>  <p>BSF ALLTHREAD 3ft</p> <p>ASMSPS</p>
		<p>PLN AS 2451 Mild Steel</p>  <p>2BA ALLTHREAD 3ft</p> <p>ASMSPS2BA</p>	<p>PLN AS 2451 Mild Steel</p>  <p>4BA ALLTHREAD 3ft</p> <p>ASMSPS4BA</p>	<p>Brass HEC DIN 975</p>  <p>METRIC ALLTHREAD 1m</p> <p>ABBRPCM</p>	<p>Brass HEC AS 3501</p>  <p>BSW ALLTHREAD 3ft</p> <p>ABBRPW</p>	<p>HDG HEC Class 5</p>  <p>METRIC HEX COUPLER</p> <p>AXHC05GCM</p>
<p>Z/P HEC Class 5</p>  <p>METRIC HEX COUPLER</p> <p>AXHC05ZCM</p>	<p>Z/P HEC Mild Steel</p>  <p>BSW HEX COUPLER</p> <p>AXHCMSZW</p>	<p>Z/P HEC Cast Iron</p>  <p>METRIC WIND BRACE D BRACKET</p> <p>AXWWCIZ</p>	<p>HDG Mild Steel</p>  <p>FISH PLATE FOR 40-50mm TRAILER AXLE</p> <p>HPFGS</p>	<p>HDG HEC Mild Steel</p>  <p>METRIC U BOLT KIT ROUND</p> <p>KURMSGCM</p>	<p>HDG HEC Mild Steel</p>  <p>BSW U BOLT KIT ROUND</p> <p>KURMSGW</p>	<p>HDG HEC Mild Steel</p>  <p>METRIC U BOLT KIT ROUND WITH WASHER</p> <p>KURMSGWM</p>

Product Guide

Low-Tensile



<div>HDG HEC Mild Steel</div> <div></div> <div>TURNBUCKLE EYE & EYE</div> <div>HTBMSGGE</div>	<div>HDG HEC Mild Steel</div> <div></div> <div>TURNBUCKLE HOOK & EYE</div> <div>HTBMSGH</div>	<div>Z/P HEC Mild Steel</div> <div></div> <div>1/4" BSW U BOLT KIT ROUND</div> <div>KURMSZW</div>	<div>HDG HEC Mild Steel</div> <div></div> <div>METRIC U BOLT KIT SQUARE</div> <div>KUSMSGCM</div>	<div>HDG HEC Mild Steel</div> <div></div> <div>METRIC U BOLT KIT SQ WITH SPRING WASHER</div> <div>KUSMSGSM</div>	<div>Z/P HEC Mild Steel</div> <div></div> <div>METRIC U BOLT KIT SQUARE</div> <div>KUSMSZCM</div>	<div>Z/P HEC Mild Steel</div> <div></div> <div>BSW EYE BOLT KIT LARGE</div> <div>KELMSZW</div>																																																																																																																																																																																																																																																																																																																																																					
		<div>HDG HEC Mild Steel</div> <div></div> <div>BSW EYE BOLT KIT</div> <div>KENMSGW</div>	<div>Z/P HEC Mild Steel</div> <div></div> <div>BSW EYE BOLT KIT</div> <div>KENMSZW</div>	<div>Z/P HEC Mild Steel</div> <div></div> <div>1/4" BSW HOOK BOLT KIT</div> <div>KHBMSZW</div>	<div>Z/P HEC Mild Steel</div> <div></div> <div>HEAVY EYE SCREW WOOD</div> <div>SEMSZL</div>	<div>Z/P HEC Mild Steel</div> <div></div> <div>HEAVY HOOK SCREW WOOD</div> <div>SHMSZL</div>																																																																																																																																																																																																																																																																																																																																																					
<div>HDG HEC Mild Steel</div> <div></div> <div>TURNBUCKLE STUB ENDS</div> <div>HTBMSGGS</div>	<div>Z/P HEC Mild Steel</div> <div></div> <div>BSW LAG SCREW</div> <div>LSMSZW</div>	<table><thead><tr><th colspan="3"></th><th colspan="3">Pitch (mm)</th><th colspan="5">Threads Per Inch</th></tr><tr><th></th><th>Size</th><th></th><th>Coarse</th><th>Fine</th><th>Extra Fine</th><th>UNC</th><th>UN8</th><th>UNF</th><th>BSW</th><th>BSF</th></tr></thead><tbody><tr><td>M1.6</td><td>-</td><td>#0</td><td>0.35</td><td>-</td><td>-</td><td>-</td><td>-</td><td>80</td><td>-</td><td>-</td></tr><tr><td>M2</td><td>-</td><td>#1</td><td>0.4</td><td>-</td><td>-</td><td>-</td><td>-</td><td>72</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>#2</td><td>-</td><td>-</td><td>-</td><td>56</td><td>-</td><td>64</td><td>-</td><td>-</td></tr><tr><td>M2.5</td><td>-</td><td>#3</td><td>0.45</td><td>-</td><td>-</td><td>48</td><td>-</td><td>56</td><td>-</td><td>-</td></tr><tr><td>-</td><td>-</td><td>#4</td><td>-</td><td>-</td><td>-</td><td>40</td><td>-</td><td>48</td><td>-</td><td>-</td></tr><tr><td>M3</td><td>1/8"</td><td>#5</td><td>0.5</td><td>-</td><td>-</td><td>40</td><td>-</td><td>44</td><td>40</td><td>-</td></tr><tr><td>M3.5</td><td>-</td><td>#6</td><td>0.6</td><td>-</td><td>-</td><td>32</td><td>-</td><td>40</td><td>-</td><td>-</td></tr><tr><td>M4</td><td>-</td><td>#8</td><td>0.7</td><td>-</td><td>-</td><td>32</td><td>-</td><td>36</td><td>-</td><td>-</td></tr><tr><td>M5</td><td>3/16"</td><td>#10</td><td>0.8</td><td>-</td><td>-</td><td>24</td><td>-</td><td>32</td><td>24</td><td>32</td></tr><tr><td>-</td><td>-</td><td>#12</td><td>-</td><td>-</td><td>-</td><td>24</td><td>-</td><td>28</td><td>-</td><td>-</td></tr><tr><td>M6</td><td>1/4"</td><td>-</td><td>1</td><td>-</td><td>-</td><td>20</td><td>-</td><td>28</td><td>20</td><td>26</td></tr><tr><td>M8</td><td>5/16"</td><td>-</td><td>1.25</td><td>1</td><td>-</td><td>18</td><td>-</td><td>24</td><td>18</td><td>22</td></tr><tr><td>M10</td><td>3/8"</td><td>-</td><td>1.5</td><td>1.25</td><td>1</td><td>16</td><td>-</td><td>24</td><td>16</td><td>20</td></tr><tr><td>-</td><td>7/16"</td><td>-</td><td>-</td><td>-</td><td>-</td><td>14</td><td>-</td><td>20</td><td>14</td><td>18</td></tr><tr><td>M12</td><td>1/2"</td><td>-</td><td>1.75</td><td>1.5</td><td>1.25</td><td>13</td><td>-</td><td>20</td><td>12</td><td>16</td></tr><tr><td>M14</td><td>9/16"</td><td>-</td><td>2</td><td>1.5</td><td>-</td><td>12</td><td>-</td><td>18</td><td>12</td><td>16</td></tr><tr><td>M16</td><td>5/8"</td><td>-</td><td>2</td><td>1.5</td><td>-</td><td>11</td><td>-</td><td>18</td><td>11</td><td>14</td></tr><tr><td>M18</td><td>-</td><td>-</td><td>2.5</td><td>1.5</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>M20</td><td>3/4"</td><td>-</td><td>2.5</td><td>1.5</td><td>-</td><td>10</td><td>-</td><td>16</td><td>10</td><td>12</td></tr><tr><td>M22</td><td>7/8"</td><td>-</td><td>2.5</td><td>1.5</td><td>-</td><td>9</td><td>-</td><td>14</td><td>9</td><td>11</td></tr><tr><td>M24</td><td>1"</td><td>-</td><td>3</td><td>2</td><td>-</td><td>8</td><td>8</td><td>12 (14)</td><td>8</td><td>10</td></tr><tr><td>M27</td><td>1 1/8"</td><td>-</td><td>3</td><td>2</td><td>-</td><td>7</td><td>8</td><td>12</td><td>7</td><td>9</td></tr><tr><td>M30</td><td>1 1/4"</td><td>-</td><td>3.5</td><td>2</td><td>-</td><td>7</td><td>8</td><td>12</td><td>7</td><td>9</td></tr><tr><td>M33</td><td>1 3/8"</td><td>-</td><td>3.5</td><td>2</td><td>-</td><td>6</td><td>8</td><td>12</td><td>6</td><td>8</td></tr><tr><td>M36</td><td>1 1/2"</td><td>-</td><td>4</td><td>3</td><td>-</td><td>6</td><td>8</td><td>12</td><td>6</td><td>8</td></tr><tr><td>M39</td><td>1 5/8"</td><td>-</td><td>4</td><td>3</td><td>-</td><td>-</td><td>8</td><td>-</td><td>5</td><td>8</td></tr><tr><td>M42</td><td>-</td><td>-</td><td>4.5</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>M45</td><td>1 3/4"</td><td>-</td><td>4.5</td><td>-</td><td>-</td><td>5</td><td>8</td><td>-</td><td>5</td><td>7</td></tr><tr><td>M48</td><td>1 7/8"</td><td>-</td><td>5</td><td>-</td><td>-</td><td>-</td><td>8</td><td>-</td><td>-</td><td>-</td></tr></tbody></table>								Pitch (mm)			Threads Per Inch						Size		Coarse	Fine	Extra Fine	UNC	UN8	UNF	BSW	BSF	M1.6	-	#0	0.35	-	-	-	-	80	-	-	M2	-	#1	0.4	-	-	-	-	72	-	-	-	-	#2	-	-	-	56	-	64	-	-	M2.5	-	#3	0.45	-	-	48	-	56	-	-	-	-	#4	-	-	-	40	-	48	-	-	M3	1/8"	#5	0.5	-	-	40	-	44	40	-	M3.5	-	#6	0.6	-	-	32	-	40	-	-	M4	-	#8	0.7	-	-	32	-	36	-	-	M5	3/16"	#10	0.8	-	-	24	-	32	24	32	-	-	#12	-	-	-	24	-	28	-	-	M6	1/4"	-	1	-	-	20	-	28	20	26	M8	5/16"	-	1.25	1	-	18	-	24	18	22	M10	3/8"	-	1.5	1.25	1	16	-	24	16	20	-	7/16"	-	-	-	-	14	-	20	14	18	M12	1/2"	-	1.75	1.5	1.25	13	-	20	12	16	M14	9/16"	-	2	1.5	-	12	-	18	12	16	M16	5/8"	-	2	1.5	-	11	-	18	11	14	M18	-	-	2.5	1.5	-	-	-	-	-	-	M20	3/4"	-	2.5	1.5	-	10	-	16	10	12	M22	7/8"	-	2.5	1.5	-	9	-	14	9	11	M24	1"	-	3	2	-	8	8	12 (14)	8	10	M27	1 1/8"	-	3	2	-	7	8	12	7	9	M30	1 1/4"	-	3.5	2	-	7	8	12	7	9	M33	1 3/8"	-	3.5	2	-	6	8	12	6	8	M36	1 1/2"	-	4	3	-	6	8	12	6	8	M39	1 5/8"	-	4	3	-	-	8	-	5	8	M42	-	-	4.5	-	-	-	-	-	-	-	M45	1 3/4"	-	4.5	-	-	5	8	-	5	7	M48	1 7/8"	-	5	-	-	-	8	-	-	-
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Product Guide

Cyclone










HOBKOTE® DIN 975 Class 4.6  METRIC ALLTHREAD ASMSHCM	Z/P DIN 975 Class 4.6  METRIC ALLTHREAD ASMSZCM	HDG DIN 975 Class 4.6  METRIC ALLTHREAD ASMSGCM	HOBKOTE® HEC Class 5  METRIC HEX COUPLER AXHC05HCM	HOBKOTE® AS 1112.3 Class 5  METRIC HEX NUT NH05HCM	HOBKOTE® HEC Mild Steel  METRIC FLAT ROUND WASHER WRMSHM	HDG HEC Mild Steel  METRIC STARTER BAR L BOLT LBMSGCM
HOBKOTE® HEC Mild Steel  METRIC STARTER BAR L BOLT LBMSHCM	HOBKOTE® HEC Mild Steel  METRIC SQUARE WSMSHM	HDG HEC Mild Steel  U SHAPE WITH BAR GUPGB	SS 316 HEC  U SHAPE WITH BAR GUPSB	HDG HEC Mild Steel  U SHAPE BOLT ON GUPGT	HDG HEC Mild Steel  U STIRRUP ROD STEM GUSGR	HDG HEC Mild Steel  L STIRRUP ROD STEM GLSGR
HDG HEC Mild Steel  L STIRRUP ROD STEM GLSGR035	HDG HEC Mild Steel  T STIRRUP ROD STEM GTSGR	HDG HEC Mild Steel  T BLADE BOLT ON GTPGB	HDG HEC Mild Steel  T BLADE BOLT ON EXTRA H/DUTY GTXGB	HDG HEC Mild Steel  ANGLE BRACKET M10 / 2 HOLES GABGS10	HDG HEC Mild Steel  ANGLE BRACKET M12 / 2 HOLES GABGS12	HDG HEC Mild Steel  ANGLE BRACKET M12 / 3 HOLES GABGS12
HDG HEC Mild Steel  ANGLE BRACKET M12 / 4 HOLES GABGS12	HDG HEC Mild Steel  ANGLE BRACKET M16 / 2 HOLES GABGS16	HDG HEC Mild Steel  ANGLE CONNECTOR TIMBER M6 GACGT06	HDG HEC Mild Steel  ANGLE CONNECTOR TIMBER M12 GACGT12	HDG HEC Mild Steel  ANGLED CONNECTOR TIMBER M16 GACGT16	HDG HEC Mild Steel  ANGLE CONNECTOR TIMBER M12/16 GACGT12016	HDG HEC Mild Steel  FISH TAIL POST SUPPORT GFTG

Product Guide

Cyclone



<p>HDG HEC Mild Steel</p>  <p>FLAT CONNECTOR TIMBER M12 GFCGF30050</p>	<p>HDG HEC Mild Steel</p>  <p>FLAT CONNECTOR TIMBER M12 GFCGF45050</p>	<p>HDG HEC Mild Steel</p>  <p>FLAT CONNECTOR TIMBER M12 GFCGF45065</p>	<p>HDG HEC Mild Steel</p>  <p>FLAT CONNECTOR TIMBER M16 GFCGF16450</p>	<p>HDG HEC Mild Steel</p>  <p>TRUSS CONNECTOR BOND BEAM GTBGB</p>	<p>HDG HEC Mild Steel</p>  <p>TRUSS CONNECTOR Z BRACKET GTCGZ</p>	<p>HOBKOTE® HEC Mild Steel</p>  <p>TRUSS CONNECTOR Z BRACKET GTCHZ</p>
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HOBKOTE® is a specially formulated high performance coating.



The **HOBKOTE®** coating conforms to ISO4042 with between 5-8 micron in thickness and a specially formulated passivation. The **HOBKOTE®** coating performs with 33% more corrosion resistance than Zinc Plated product.





Product Guide Kits

Assortment Kits

Hobson Engineering have a wide variety of Assortment Kits. All available in a **handy, tough, metal case**.

Each Kit has a selection of mixed or similar items, in various sizes.

They look **professional**, are extremely **useful** and incredibly **compact**.



**Zinc Plated
Metric Flange
Class 8.8**



**SERRATED
BOLTS & NUTS
M5 M6 M8 M10**

FEFK003

5.74kg / 579pcs

**Zinc Plated
Metric Fine
Class 8.8**



**BOLTS & NUTS
M8 M10 M12**

FEFK004

6.55kg / 303pcs

**Stainless 316
Metric
HEC**



**BOLTS NUTS &
WASHERS
M5 M6**

FEFK005

3.19kg / 810pcs

**Stainless 316
Metric
HEC**



**BOLTS NUTS &
WASHERS
M8 M10**

FEFK006

3.65kg / 324pcs

**Zinc Plated
HEC**



**WASHERS RND/
MUDGUARD/
SPRING**

FEFK007

6.06kg / 1770pcs

**PLN
Metric
Class 12.9**



**SOCKET HEAD
CAP SCREWS
M5 M6 M8 M10**

FEFK008

4.55kg / 354pcs

Product Guide Kits



Zinc Plated Steel HEC	Zinc Plated Aluminium / Steel	Zinc Yellow HEC	Zinc Plated HEC	Zinc Plated Metric Class 8.8	Zinc Plated UNC Grades 5 & 8
SPLIT PINS 1.6 2.0 2.5 3.2 4.0 5.0 Ø	BLIND RIVETS DOME 3.2mm 4.0mm 4.8mm	SELF DRILLING METAL SCREWS	PHILLIPS SELF TAPPING PAN HEAD 6-12G	BOLTS & NUTS M6 M8 M10 M12	BOLTS & NUTS 1/4 5/16 3/8 1/2
FEFK009	FEFK010	FEFK011	FEFK012	FEFK015	FEFK016
4.13kg / 1705pcs	3.54kg / 1150pcs	4.4kg / 1180pcs	4.77kg / 1545pcs	7.07kg / 513pcs	6.59kg / 420pcs



Assortment MASTER Kits

Contain the following:

Bolts: Set Screw

Nuts: Hex, NYLOC®, Dome, Flanged

Washers: Round, Spring, Mudguard

*M5 also contains **Socket Screws**

M5, M6, M8,
M10 or M12

Black Zinc Plated HEC	Zinc Plated /PLN High Tensile Class 8.8	Zinc Plated High Tensile Class 8.8	Zinc Plated High Tensile Class 8.8	Zinc Plated High Tensile Class 8.8	Zinc Plated High Tensile Class 8.8
PHILLIPS SELF TAPPING PAN HEAD 6-10G	SHCS BOLTS NUTS WASHERS (FLANGE)	SET SCREWS BOLTS NUTS & WASHERS	SET SCREWS BOLTS NUTS & WASHERS	SET SCREWS BOLTS NUTS & WASHERS	SET SCREWS BOLTS NUTS & WASHERS
FEFK018	FEFK019	FEFK020	FEFK021	FEFK022	FEFK023
4.38kg / 1640pcs	4.93kg / 1460pcs	6.17kg / 1185pcs	6.58kg / 700pcs	6.7kg / 430pcs	6.79kg / 290pcs



Product Guide Mungo



<p>Z/P m1t Carbon Steel</p> <p>THROUGHBOLT WITH WASHER</p> <p>MUMM1T0</p>	<p>Z/P m1t-C Carbon Steel</p> <p>THROUGHBOLT WITH WASHER - DIN 9021</p> <p>MUMM1TC</p>	<p>SS 316 m1tr Carbon Steel</p> <p>THROUGHBOLT WITH WASHER</p> <p>MUMM1TR0</p>	<p>SS 316 m1tr-C Carbon Steel</p> <p>THROUGHBOLT WITH WASHER - DIN 9021</p> <p>MUMM1TRC</p>	<p>GreenTec® m2 Carbon Steel</p> <p>THROUGHBOLT WITH WASHER</p> <p>MUMM200</p>	<p>KEY</p> <p>Directly compatible with SA TS 101: 2015</p> <p>Fire Rated</p> <p>Seismic Load Approval</p>	
<p>GreenTec® m2 Carbon Steel</p> <p>THROUGHBOLT WITH WASHER IN MINI-BOX</p> <p>MUMM2MBP</p>	<p>Z/P m2-C Carbon Steel</p> <p>THROUGHBOLT WITH WASHER - DIN 9021</p> <p>MUMM2C0</p>	<p>Z/P m2-C Carbon Steel</p> <p>THROUGHBOLT WITH WASHER DIN 9021 MINI-BOX</p> <p>MUMM2CMB</p>	<p>HDG m2f Carbon Steel</p> <p>THROUGHBOLT WITH WASHER</p> <p>MUMM2F</p>	<p>SS 316 m2r Carbon Steel</p> <p>THROUGHBOLT WITH WASHER</p> <p>MUMM2R0</p>	<p>SS 316 m2r-C Carbon Steel</p> <p>THROUGHBOLT WITH WASHER - DIN 9021</p> <p>MUMM2RC</p>	<p>Z/P m2-l Carbon Steel</p> <p>INTERNALLY THREADED BOLT</p> <p>MUMM2I</p>
<p>SS 316 m2r-l Carbon Steel</p> <p>INTERNALLY THREADED BOLT</p> <p>MUMM2RI</p>	<p>Z/P HL-S (SZ-S) Carbon Steel</p> <p>HEAVY DUTY ANCHOR HEX</p> <p>MUMHLSSZ</p>	<p>Z/P HL-B (SZ-B) Carbon Steel</p> <p>HEAVY DUTY ANCHOR</p> <p>MUMHLBSZ</p>	<p>Z/P HL-SK (SZ-SK) Carbon Steel</p> <p>CSK HEAD HEAVY DUTY ANCHOR</p> <p>MUMHLSK</p>	<p>Zinc Flake MCS-S Carbon Steel</p> <p>HEX HEAD CONCRETE SCREW HEX</p> <p>MUMMCSS0</p>	<p>Z/P MCS-SK Carbon Steel</p> <p>CSK HEAD CONCRETE SCREW TORX</p> <p>MUMMCSSK</p>	<p>Z/P MCS-P Carbon Steel</p> <p>PAN HEAD CONCRETE SCREW TORX</p> <p>MUMMCSP</p>
<p>Z/P MCS-PG Carbon Steel</p> <p>LRG PAN HEAD CONCRETE SCREW TORX</p> <p>MUMMCSPG</p>	<p>Z/P MCS-I Carbon Steel</p> <p>CSK SOCKET HEAD CONCRETE SCREW HEX</p> <p>MUMMCSI</p>	<p>SS316 MCSr-S Carbon Steel</p> <p>HEX HEAD CONCRETE SCREW HEX</p> <p>MUMMCSRS</p>	<p>SS 316 MCSr-SK Carbon Steel</p> <p>CSK HEAD CONCRETE SCREW TORX</p> <p>MUMMCSRK</p>	<p>SS 316 MCSr-P Carbon Steel</p> <p>PAN HEAD CONCRETE SCREW TORX</p> <p>MUMMCSR-P</p>	<p>Z/P MSS Carbon Steel</p> <p>SHIELD ANCHOR</p> <p>MUMMSS</p>	<p>Z/P MHA-S Carbon Steel</p> <p>SLEEVE ANCHOR HEX SCREW</p> <p>MUMMHAS</p>

<p>Z/P MHA-B Carbon Steel</p>  <p>SLEEVE ANCHOR</p> <p>MUMMHAB</p>	<p>Z/P ESA (E) Carbon Steel</p>  <p>DROP IN ANCHOR</p> <p>MUMESAE</p>	<p>Z/P ESAK (ES) Carbon Steel</p>  <p>DROP IN ANCHOR WITH COLLAR</p> <p>MUMESAKE</p>	<p>SS 316 ESAr (E A4)</p>  <p>DROP IN ANCHOR</p> <p>MUMESARE</p>	<p>Z/P ESA-WZ Carbon Steel</p>  <p>SETTING TOOL FOR ESA</p> <p>MUMESAWZ</p>	<p>Z/P ESA-H Steel / Plastic</p>  <p>SETTING TOOL FOR ESA WITH HAND GUARD</p> <p>MUMESAH</p>	<p>Brass MMD</p>  <p>BRASS ANCHOR</p> <p>MUMMMD</p>
<p>Z/P MHDA Carbon Steel</p>  <p>HOLLOW CEILING ANCHOR</p> <p>MUMMHDA0</p>	<p>SS 316 MHDAr</p>  <p>HOLLOW CEILING ANCHOR</p> <p>MUMMHDAr</p>	<p>Z/P MAN Carbon Steel</p>  <p>CEILING ANCHOR</p> <p>MUMMAN</p>	<p>Z/P MMS Carbon Steel</p>  <p>CONCRETE FRAME ANCHOR POZI DR</p> <p>MUMMMS0</p>	<p>Z/P MMM Carbon Steel</p>  <p>MASONRY FRAME ANCHOR MULTI POZI DR</p> <p>MUMMMM</p>	<p>Z/P MEN Carbon Steel</p>  <p>EXPRESS NAIL</p> <p>MUMMEN</p>	<p>Z/P MDB-M</p>  <p>METAL DISC DIAM 38MM</p> <p>MUMMDBM3</p>
<p>Z/P MDB-M</p>  <p>METAL DISC DIAM 38MM WHITE</p> <p>MUMMDBMW</p>	<p>Z/P MDB-M</p>  <p>METAL DISC DIAM 70MM</p> <p>MUMMDBM7</p>	<p>Z/P MRS-H Carbon Steel</p>  <p>TRIM HEAD 8.3 WALL SCREW TORX DR</p> <p>MUMMRSH</p>	<p>Z/P MRS-U Carbon Steel</p>  <p>CSK HEAD 11.5 WALL SCREW TORX DR</p> <p>MUMMRSU</p>	<p>Z/P MJB Carbon Steel</p>  <p>ADJUSTABLE SCREW T25 TORX DR</p> <p>MUMMJB</p>	<p>Z/P TR-R Carbon Steel</p>  <p>FRAME FIXING SCREW RAFIX HEX DR</p> <p>MUMTRR0</p>	<p>Z/P TR-RK Carbon Steel</p>  <p>FRAME FIXING SCREW RAFIX HEX DR</p> <p>MUMTRRK</p>
<p>Z/P TR Carbon Steel</p>  <p>TOPROC SPACER HEX DR</p> <p>MUMTR0</p>	<p>Z/P TR-B Carbon Steel</p>  <p>TOPROC SPACER HEX DR</p> <p>MUMTRB0</p>	<p>Z/P TR-BS Carbon Steel</p>  <p>TOPROC SPACER HEX DR</p> <p>MUMTRBS</p>	<p>Phosphated SBS-FG Drywall</p>  <p>BUGLE HEAD PHILLIPS</p> <p>MUMSBSFG</p>	<p>Phosphated SBS-GG Drywall</p>  <p>BUGLE HEAD PHILLIPS</p> <p>MUMSBSGG</p>	<p>Phosphated SBS-HG Drywall</p>  <p>CSK RIBBED PHILLIPS</p> <p>MUMSBSHG</p>	<p>Phosphated SBS-TE Drywall</p>  <p>BUGLE HEAD PHILLIPS</p> <p>MUMSBSTE</p>






Product Guide Mungo



Phosphated SBS-FK Drywall  LARGE WAFER PHILLIPS MUMSBSFK	Phosphated SBS-ZK Metal  LARGE WAFER PHILLIPS MUMSBSZK	Phosphated SBS-GS Drywall  CSK RIBBED PHILLIPS MUMSBSGS	Pure Epoxy MIT600RE  CARTRIDGE 385ML MUCMT6001710001	Pure Epoxy MIT600RE  CARTRIDGE 585ML MUCMT6001710010	KEY  Directly compatible with SA TS 101: 2015  Fire Rated  Seismic Load Approval	
Pure Epoxy MIT600RE  CARTRIDGE 1400ML MUCMT6001710012	MIT-K  REBAR CASE FOR MIT600RE & MIT-SE PLUS MUCMTKO	Vynilester MIT-SE Plus  STYRENE FREE CARTRIDGE 165ML MUCMTSEP1710024	Vynilester MIT-SE Plus  STYRENE FREE SELF-OPENING CARTRIDGE 280ML MUCMTSEP1710015	Vynilester MIT-SE Plus  STYRENE FREE CARTRIDGE 300ML MUCMTSEP1710017	Vynilester MIT-KE  SYSTEM-CASE MIT-SE PLUS 22 X 300ML MUCMTKE3	Vynilester MIT-SE Plus  STYRENE FREE CARTRIDGE 350ML MUCMTSEP1710025
Vynilester MIT-BE  MAXI-BOX MIT-SE PLUS 20 X 350ML MUCMTBE	Vynilester MIT-SE Plus  STYRENE FREE CARTRIDGE 400ML MUCMTSEP1710026	Vynilester MIT-SE Plus  STYRENE FREE CARTRIDGE 825ML MUCMTSEP1710022	Polyester MIT-SP  STYRENE FREE CARTRIDGE 300ML MUCMTSP01710050	Polyester MIT-SP  STYRENE FREE CARTRIDGE 350ML MUCMTSP01710057	Polyester MIT-SP  STYRENE FREE CARTRIDGE 400ML MUCMTSP01710052	Polyester MIT-KP  SYSTEM-CASE MIT-SP 22 X 300ML MUCMTKP3
Epoxy-Acrylate MIT-E  CARTRIDGE 400ML MUCMTE40	MIT-COOL Low Temperature  STYRENE FREE CARTRIDGE 300ML MUCMTC30	MIT-COOL Low Temperature  STYRENE FREE CARTRIDGE 400ML MUCMTC40	MIT-PP-H0  INJECTION GUN 11 IN 1 FOR MIT MUCMTPH0	MIT-PP-H1  EASY-PRESS FOR MIT 165/280/300 MUCMTPH11710034	MIT-PP-H1  EASY-PRESS FOR MIT 350 MUCMTPH11710035	MIT-PP-H1  EASY-PRESS FOR MIT 400 MUCMTPH11710036



<p>MIT-PP-HK</p>  <p>SYSTEM-CASE EASY-PRESS FOR MIT 165-300</p> <p>MUCMTPHK1710201</p>	<p>MIT-PP-HK</p>  <p>SYSTEM-CASE EASY-PRESS FOR MIT 350</p> <p>MUCMTPHK1710202</p>	<p>MIT-PP-HK</p>  <p>SYSTEM-CASE EASY-PRESS FOR MIT 400</p> <p>MUCMTPHK1710203</p>	<p>MIT-PP-H2</p>  <p>INJECTION GUN FOR MIT 165/280/300</p> <p>MUCMTPH21710029</p>	<p>MIT-PP-H2</p>  <p>INJECTION GUN FOR MIT 350</p> <p>MUCMTPH21710033</p>	<p>MIT-PP-H2</p>  <p>INJECTION GUN FOR MIT 385/585</p> <p>MUCMTPH21710019</p>	<p>MIT-PP-H2</p>  <p>INJECTION GUN FOR MIT 400</p> <p>MUCMTPH21710009</p>
<p>MIT-PP-A</p>  <p>CORDLESS INJECTION GUN FOR MIT 350</p> <p>MUCMTPPA1710221</p>	<p>MIT-PP-A</p>  <p>CORDLESS INJECTION GUN FOR MIT 165-300</p> <p>MUCMTPPA1710046</p>	<p>MIT-PP-A</p>  <p>CORDLESS INJECTION GUN FOR MIT 400</p> <p>MUCMTPPA1710021</p>	<p>MIT-PP-P</p>  <p>PNEUMATIC INJECTION GUN FOR MIT 165-350</p> <p>MUCMTPPP1710040</p>	<p>MIT-PP-P</p>  <p>PNEUMATIC INJECTION GUN FOR MIT 385-585</p> <p>MUCMTPPP1710048</p>	<p>MIT-PP-P</p>  <p>PNEUMATIC INJECTION GUN FOR MIT 400</p> <p>MUCMTPPP1710020</p>	<p>MIT-PP-P</p>  <p>PNEUMATIC INJECTION GUN FOR MIT 825</p> <p>MUCMTPPP1710031</p>
<p>MIT-PP-P</p>  <p>PNEUMATIC INJECTION GUN FOR MIT 1400</p> <p>MUCMTPPP1710049</p>	<p>MIT-BN-H1</p>  <p>NYLON BRUSH</p> <p>MUCMTBNH</p>	<p>MIT-BS-H0</p>  <p>UNIVERSAL STEEL BRUSH</p> <p>MUCMTBH0</p>	<p>MIT-BS-H1</p>  <p>STEEL BRUSH</p> <p>MUCMTBH1</p>	<p>MIT-BS-M1</p>  <p>STEEL BRUSH</p> <p>MUCMTBM1</p>	<p>MIT-BS-MV</p>  <p>BRUSH EXTENSION</p> <p>MUCMTBMV</p>	<p>MIT-BS-MA</p>  <p>SDS-PLUS ADAPTER M6</p> <p>MUCMTBMA</p>
<p>MIT-AP-HG1</p>  <p>PURGING PUMP 840ML</p> <p>MUCMTAPG</p>	<p>MIT-AP-HK0</p>  <p>PURGING PUMP 320ML</p> <p>MUCMTAPK</p>	<p>MIT-AP-D1</p>  <p>COMPRESSED AIR TOOL</p> <p>MUCMTAPD</p>	<p>MIT-VS</p>  <p>PISTON PLUGS</p> <p>MUCMTVS</p>	<p>Plastic MIT-MI-1</p>  <p>MIXER IN TWO PARTS</p> <p>MUCMTMI1</p>	<p>Plastic MIT-MI-2</p>  <p>MIXER</p> <p>MUCMTMI2</p>	<p>Plastic MIT-MI-3</p>  <p>MIXER</p> <p>MUCMTMI3</p>



Product Guide

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Plastic MIT-MI-V1  MIXER EXTENSION MUCMTMV1	PVC MIT-MI-V2  EXTENSION 1M MUCMTMV2	Plastic MIT-SH-K0  SLEEVE MUCMTSH0	Plastic MIT-SH-K1  SLEEVE MUCMTSH1	Plastic MIT-SH-K2  SLEEVE MUCMTSH2	Metal MIT-SH-S0  SLEEVE MUCMTSHS	Z/P MIT-S Class 5.8  ANCHOR ROD KIT MUCMTS0
SS 316 MIT-Sr  ANCHOR ROD KIT MUCMTSR	Z/P MIT-IGH  ANCHOR SLEEVE INT THREAD MUCMTIGH	SS 304 MIT-AKH  ANCHOR SLEEVE MUCMTAKH	SS 304 MIT-ESH  INSERT ANCHOR MUCMTESH	Epoxy- Acrylate MVA   RESIN CAPSULE MUCMVA0	Z/P MVA-S Class 5.8   ANCHOR ROD KIT EXT. HEX MUCMVAS0	SS 316 MVA-Sr   ANCHOR ROD KIT EXT. HEX MUCMVASR
Z/P MVA-WZ  SETTING TOOL MUCMVAWZ	Z/P MVA-I Class 5.8  ANCHOR SLEEVE INT THREAD MUCMVAI0	SS 316 MVA-Ir  ANCHOR SLEEVE INT THREAD MUCMVAIR	PU Foam MPU-P50/B1  FIRE RATED DISPENSER FOAM 750ML MUCMPU5B	PU Foam MPU-P50 Universal Use  DISPENSER FOAM 750ML MUCMPU50	PU Foam MPU-M50 Universal Use  HAND HELD PU FOAM 750ML MUCMPUM5	PU Foam MPU-P40/AS  GUN SOFT FOAM 750ML MUCMPU40
PU Foam MPU-PS50  CONCRETE FRAMEWORK 750ML MUCMPUS5	PU Foam MPU-PP Perifix  PERIMETRE ADHESIVE 750ML MUCMPUPP	MRM-PU Cleaner  FOR PU-FOAM AND DISPENSER 500ML MUCMRMPU	MPP-M  METAL DISPENSER MUCMPPM	MPP-K  NYLON/METAL DISPENSER MUCMPPK	Neutral Silicone MSI-NP Universal Use  FUNGUS- INHIBITING 310ML MUCMSINP	Acrylic MDA Indoor/Outdoor  SEALANT PAINTABLE WHITE 310ML MUCMDA



MMK-U Universal Use  ADHESIVE TRANSPARENT 290ML MUCMMKU	MMK-U Universal Use  ADHESIVE GREY 290ML MUCMMKU	Nylon MN  NYLON PLUG MUNMNPP	Nylon MN  NYLON PLUG MINI-BOX BULK PACKED MUNMNPB	Nylon MN  NYLON PLUG MAXI-BOX MUNMNPX	Nylon MN  NYLON PLUG CARTON BULK PACKED MUNMNPL	Nylon MNK  NYLON PLUG WITH COLLAR MUNMNK
Nylon MNL  NYLON PLUG LONG MUNMNL	Nylon MQ  QUATTRO® NYLON PLUG MUNMQPP	Nylon MQ  QUATTRO® NYLON PLUG MINI-BOX MUNMQPB	Nylon MQ  QUATTRO® NYLON PLUG MAXI-BOX MUNMQPX	Nylon MQ  QUATTRO® NYLON PLUG BULK PACKED MUNMQPL	Nylon MOB  NYLON PLUG MQ/MU KIT 230 PCS MUNMOB	Nylon MU  MULTI PLUG NYLON MUNMUPP
Nylon MU  MULTI PLUG NYLON MINI-BOX MUNMUPB	Nylon MU  MULTI PLUG MAXI-BOX MUNMUX	Nylon MU  MULTI PLUG NYLON BULK PACKED MUNMUPL	Nylon ML  HOLLOW BRICK PLUG DIAM 6/8 MUNML060	Nylon ML  HOLLOW BRICK PLUG DIAM 10/14 MUNML100	Nylon MLK  HOLLOW BRICK PLUG COLLAR DIAM 8 MUNMLK08	Nylon MLK  HOLLOW BRICK PLUG COLLAR DIAM 14 MUNMLK14
Nylon SD  SOUND INSULATION PLUG MUNSD0	Nylon SDK  COLLAR SOUND INSULATION PLUG MUNSDK	Z/P & Nylon MNA-S  HAMMER SCREW CSK COLLAR POZI DR MUNMNAS0	Z/P & Nylon MNA-S  HAMMER SCREW CSK COLLAR POZI DR MUNMNASN	Z/P & Nylon MNA-Z  HAMMER SCREW CYL COLLAR POZI DR MUNMNAZ	Z/P & Nylon MNA-G  HAMMER SCREW LARGE COLLAR POZI DR MUNMNAG	Z/P & Nylon MNA-G  HAMMER SCREW LARGE COLLAR TORX DR MUNMNAG









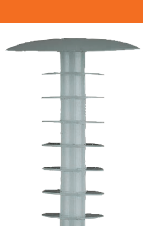


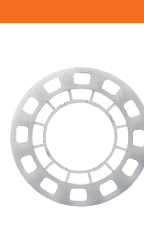


















Product Guide Mungo



<p>SS 304 & Nylon MNAr-S</p> <p>HAMMER SCREW CSK COLLAR POZI DR</p> <p>MUNMNARS</p>	<p>SS 304 & Nylon MNAr-Z</p> <p>HAMMER SCREW CYL COLLAR POZI DR</p> <p>MUNMNARZ</p>	<p>Nylon White MDB</p> <p>NYLON DISC WHITE</p> <p>MUNMDB</p>	<p>Z/P & Nylon MNAF</p> <p>HAMMER SCREW WHITE POZI DR</p> <p>MUNMNAFW</p>	<p>Z/P & Nylon MNAF</p> <p>HAMMER SCREW YELLOW POZI DR</p> <p>MUNMNAFY</p>	<p>KEY</p> <p>Directly compatible with SA TS 101: 2015</p> <p>Fire Rated</p> <p>Seismic Load Approval</p>	
<p>Z/P & Nylon MNAF</p> <p>HAMMER SCREW DARK BROWN POZI DR</p> <p>MUNMNAFB</p>	<p>Z/P & Nylon MQL-ST</p> <p>UNIVERSAL FRAME PLUG TORX DR</p> <p>MUNMQLST</p>	<p>Z/P & Nylon MQL-SS</p> <p>UNIVERSAL FRAME PLUG HEX</p> <p>MUNMQLSS</p>	<p>Z/P & Nylon MQLK-STB</p> <p>UNIVERSAL FRAME PLUG TORX/HEX DR</p> <p>MUNMQLKB</p>	<p>SS 316 & Nylon MQL-STR</p> <p>UNIVERSAL FRAME PLUG TORX DR</p> <p>MUNMQLSR</p>	<p>SS 316 & Nylon MQLK-STBr</p> <p>UNIVERSAL FRAME PLUG TORX/HEX DR</p> <p>MUNMQLKR</p>	<p>Z/P & Nylon MB-ST</p> <p>FRAME PLUG SOFT MATERIALS TORX</p> <p>MUNMBST0</p>
<p>Z/P & Nylon MB-SS</p> <p>FRAME PLUG SOFT MATERIALS HEX</p> <p>MUNMBSS0</p>	<p>HDG & Nylon MB-SSf</p> <p>FRAME PLUG SOFT MATERIALS HEX</p> <p>MUNMBSSF</p>	<p>Z/P & Nylon MB-S</p> <p>FRAME PLUG SOFT MATERIALS POZI</p> <p>MUNMBS0</p>	<p>Z/P & Nylon MBK-STB</p> <p>FRAME PLUG SOFT MATERIALS TORX/HEX</p> <p>MUNMBKSB</p>	<p>SS 316 & Nylon MB-STR</p> <p>FRAME PLUG SOFT MATERIALS TORX</p> <p>MUNMBSTR</p>	<p>SS 316 & Nylon MB-SSr</p> <p>FRAME PLUG SOFT MATERIALS HEX</p> <p>MUNMBSSR</p>	<p>SS 316 & Nylon MBK-STBr</p> <p>FRAME PLUG SOFT MATERIALS TORX/HEX</p> <p>MUNMBKSR</p>
<p>Z/P & Nylon MB-SK</p> <p>FRAME PLUG WITH HEAD HOLE TORX</p> <p>MUNMBSK</p>	<p>Z/P SR-SK</p> <p>SAFETY SCREW WITH INTERNAL THREAD M5/T40</p> <p>MUNSRSK</p>	<p>Z/P & Nylon MBR-ST</p> <p>FRAME PLUG SOLID MATERIALS TORX</p> <p>MUNMBRST</p>	<p>Z/P & Nylon MBR-SS</p> <p>FRAME PLUG SOLID MATERIALS HEX</p> <p>MUNMBRSS</p>	<p>Z/P & Nylon MBR-S</p> <p>FRAME PLUG SOLID MATERIALS POZI</p> <p>MUNMBRS0</p>	<p>Z/P & Nylon MBR-STB</p> <p>FRAME PLUG SOLID MATERIALS TORX/HEX</p> <p>MUNMBRKS</p>	<p>SS 316 & Nylon MBR-STR</p> <p>FRAME PLUG SOLID MATERIALS TORX</p> <p>MUNMBRTR</p>


















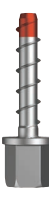












<p>SS 316 & Nylon MBR-SSr</p>  <p>FRAME PLUG SOLID MATERIALS HEX</p> <p>MUNMBRSR</p>	<p>Z/P & Nylon MBR-SK</p>  <p>FRAME PLUG WITH HEAD HOLE TORX</p> <p>MUNMBRSK</p>	<p>Z/P & Nylon MBR-XT</p>  <p>HIGH PERFORMANCE FRAME PLUG</p> <p>MUNMBRXT</p>	<p>Z/P & Nylon MBRK-XTB</p>  <p>HIGH PERFORMANCE FRAME PLUG</p> <p>MUNMBRKX</p>	<p>SS 316 & Nylon MBR-XTr</p>  <p>HIGH PERFORMANCE FRAME PLUG</p> <p>MUNMBRXR</p>	<p>SS 316 & Nylon MBRK-XTBr</p>  <p>HIGH PERFORMANCE FRAME PLUG</p> <p>MUNMBRKR</p>	<p>Nylon MGD</p>  <p>SCAFFOLD PLUG</p> <p>MUNMGD</p>
<p>Z/P MGV</p>  <p>SCAFFOLD SCREW</p> <p>MUNMGV0</p>	<p>Nylon MVS</p>  <p>END CAP FOR SCAFFOLD PLUG</p> <p>MUNMVS</p>	<p>Z/P MGVm</p>  <p>SCAFFOLD SCREW</p> <p>MUNMGVM</p>	<p>Plastic MDD-S Carbon Steel</p>  <p>INSULATION FIXING DIAM 60MM</p> <p>MUIMDDS</p>	<p>Plastic MDD-VZ</p>  <p>DISC FOR MDD-S / MDD-CE</p> <p>MUIMDDVZ</p>	<p>Plastic MDD-CE</p>  <p>INSULATION FIXING DIAM 60MM</p> <p>MUIMDDCE</p>	<p>Black MDS</p>  <p>INSULATION FIXING DIAM 90MM</p> <p>MUIMDS0</p>
<p>White MIS Lightweight Panel</p>  <p>INSULATION FIXING DIAM 88MM</p> <p>MUIMIS0</p>	<p>Black MIS Lightweight Panel</p>  <p>INSULATION FIXING DIAM 60MM</p> <p>MUIMISB0</p>	<p>White MIS-GP Lightweight Panel</p>  <p>INSULATION FIXING DIAM 88MM CARTON</p> <p>MUIMISGP</p>	<p>White MIP Mineral Wool</p>  <p>INSULATION FIXING DIAM 45MM</p> <p>MUIMIPO</p>	<p>White MIP-GP Mineral Wool</p>  <p>INSULATION FIXING DIAM 45MM CARTON</p> <p>MUIMIPGP</p>	<p>Z/P MIDS</p>  <p>INSULATION NAIL DIAM 30/35MM</p> <p>MUIMIDS0</p>	<p>Z/P MDB</p>  <p>METAL DISC FOR SOFT INSULATION</p> <p>MUIMDBZ</p>
<p>SS 304 MIDSr</p>  <p>INSULATION NAIL DIAM 30/35MM</p> <p>MUIMIDSR</p>	<p>SS 304 MDB</p>  <p>METAL DISC FOR SOFT INSULATION</p> <p>MUIMDBA2</p>	<p>Z/P MIDS-K</p>  <p>INSULATION NAIL DIAM 54MM</p> <p>MUIMIDSK</p>	<p>Nylon MDI</p>  <p>INSULATION PLUG</p> <p>MUIMDI25</p>	<p>Nylon MDIm</p>  <p>INSULATION PLUG FOR M8-M10</p> <p>MUIMDIM0</p>	<p>Z/P MJP32</p>  <p>JET PLUG METAL</p> <p>MUSMJ32</p>	<p>Z/P MJP25</p>  <p>JET PLUG METAL</p> <p>MUSMJ25</p>



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CONSTRUCT

XBolt
Ty9aBolt®














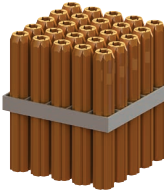
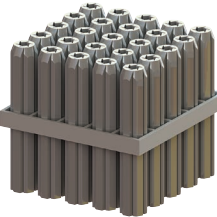


<p>ZYP HEC Class 5.8</p>  <p>CLAWBOLT® WEDGE ANCHOR</p> <p>MAW58YCM</p>	<p>ZYP HEC Class 4.6</p>  <p>CLAWBOLT® WEDGE ANCHOR</p> <p>MAW46YCM</p>	<p>MGAL HEC Class 5.8</p>  <p>CLAWBOLT® WEDGE ANCHOR</p> <p>MAW58GCM</p>	<p>MGAL HEC Class 4.6</p>  <p>CLAWBOLT® WEDGE ANCHOR</p> <p>MAW46GCM</p>	<p>SS 316 HEC</p>  <p>CLAWBOLT® WEDGE ANCHOR</p> <p>MAW16PCM</p>	<p>ZYP HEC Carbon Steel</p>  <p>TY9aBolt® SLEEVE ANCHOR</p> <p>MTBMSYM</p>	<p>MGAL HEC Carbon Steel</p>  <p>TY9aBolt® SLEEVE ANCHOR</p> <p>MTBMSGM</p>
<p>SS 316 HEC</p>  <p>TY9aBolt® SLEEVE ANCHOR</p> <p>MTB16PM</p>	<p>ZYP HEC Class 8.8</p>  <p>TY9aBolt® FLUSH HEAD SLEEVE ANCHOR</p> <p>MTH88YM</p>	<p>SS 316 HEC</p>  <p>TY9aBolt® FLUSH HEAD SLEEVE ANCHOR</p> <p>MTH16PM</p>	<p>MGAL HEC Carbon Steel</p>  <p>XBolt® HEX FLANGE HEAD</p> <p>MXHMSGM</p>	<p>ZYP HEC Carbon Steel</p>  <p>XBolt® HEX FLANGE HEAD</p> <p>MXHMSYM</p>	<p>ZYP HEC Carbon Steel</p>  <p>XBolt® EYE</p> <p>MXEMS YM</p>	<p>ZYP HEC Carbon Steel</p>  <p>XBolt® COUPLER</p> <p>MXCMSYM</p>
<p>MGAL HEC Carbon Steel</p>  <p>XBolt® COUPLER</p> <p>MXCMSGM</p>	<p>ZYP HEC Carbon Steel</p>  <p>XBolt® VERTICAL HANGER</p> <p>MXVMSZIM</p>	<p>ZYP HEC Carbon Steel</p>  <p>DROP IN ANCHOR WITH LIP</p> <p>MDLMSYCM</p>	<p>ZYP HEC Carbon Steel</p>  <p>DROP IN ANCHOR</p> <p>MDIMSYCM</p>	<p>SS 316 HEC</p>  <p>DROP IN ANCHOR</p> <p>MDI16PCM</p>	<p>ZYP HEC Carbon Steel</p>  <p>DROP-IN SETTING TOOL</p> <p>MATMSZM</p>	<p>Red Grip HEC Carbon Steel</p>  <p>DROP IN SETTING TOOL WITH HANDLE</p> <p>MATR</p>
<p>NYLON HEC Steel Pin</p>  <p>NAIL IN ANCHOR MUSHROOM</p> <p>MNMNM</p>	<p>NYLON HEC SS 304 Pin</p>  <p>NAIL IN ANCHOR MUSHROOM</p> <p>MNMSM</p>	<p>NYLON HEC Steel Pin</p>  <p>NAIL IN ANCHOR ROUND</p> <p>MNRNM</p>	<p>NYLON HEC SS 304 Pin</p>  <p>NAIL IN ANCHOR ROUND</p> <p>MNRSM</p>	<p>ZYP HEC Steel Pin</p>  <p>NAIL IN ANCHOR MUSHROOM</p> <p>MNPZM</p>	<p>ZYP HEC Carbon Steel</p>  <p>TIE WIRE SUSPENSION ANCHOR</p> <p>MSTMSYM</p>	<p>ZYP HEC Carbon Steel</p>  <p>SUSPENSION ANCHOR</p> <p>MSAMSYM</p>



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Z/P HEC Carbon Steel	MGAL HEC Carbon Steel	MGAL HEC Carbon Steel	SS 316 HEC	Z/P HEC Carbon Steel	Z/P HEC Metal	NYLON HEC
						
H-IT™ TIE WIRE ANCHOR	H-IT™ COUNTERSUNK ANCHOR	H-IT™ MUSHROOM ANCHOR	H-IT™ MUSHROOM ANCHOR	H-IT™ MINI SPLICE WEDGE	PANTHA PLUG® SUIT 8G SCREW	PANTHA PLUG® SUIT 8G SCREW
MHAHTZTM	MHAHTMCM	MHAHTMMM	MHA16PMM	MHWMSZSM	MWPPM	MWPPP
NYLON HEC Grey	PVC HEC Yellow	PVC HEC White	PVC HEC Red	PVC HEC Green	PVC HEC Blue	
						
UNIVERSAL WALL PLUG TAPERED POINT	1-2-3G SCREW TAPERED POINT	4-5G SCREW TAPERED POINT	8-9G SCREW TAPERED POINT	10-12G SCREW TAPERED POINT	14-16G SCREW TAPERED POINT	
MWPNUG	MWPFY	MWPFW	MWPF R	MWPF G	MWPF B	
PVC HEC Orange	PVC HEC Grey					
						
16-18G SCREW TAPERED POINT	20-24G SCREW TAPERED POINT					
MWPFO	MWPF E					
<div><div>XBolt® VERTICAL HANGER</div><div>MVXMSZIM</div></div> <div></div>						



Primary applications:

- » Fastening hangers for HVAC (Heating, Ventilation and Air Conditioning) ducting, electrical cable trays, pipe brackets and pipes
- » Fastening hangers for ceiling frames



















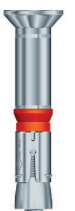
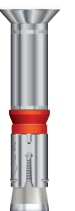








XBolts® are single unit screw type anchors that are used in solid concrete applications. Fixing is achieved by screwing the anchor into a drilled hole in concrete. As it is screwed in, the anchor taps the hole, thus enabling it to produce a mechanical interlock with the concrete.



Product Guide

CONSTRUCT



<p>Z/P MKT® Carbon Steel</p>  <p>WEDGE ANCHOR B</p> <p>MABM5ZSM</p>	<p>HDG MKT® Carbon Steel</p>  <p>WEDGE ANCHOR B</p> <p>MABM5GSM</p>	<p>SS 316 MKT®</p>  <p>WEDGE ANCHOR B</p> <p>MABM4PSM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>WEDGE ANCHOR BZ PLUS</p> <p>MABM5ZUM</p>	<p>SS 316 MKT®</p>  <p>WEDGE ANCHOR BZ</p> <p>MABM4PUM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>WEDGE ANCHOR B-IG</p> <p>MABM5ZGM</p>	<p>SS 316 MKT®</p>  <p>WEDGE ANCHOR B-IG</p> <p>MABM4PGM</p>
<p>Z/P MKT® Carbon Steel</p>  <p>WEDGE ANCHOR BZ-IG PRE-INSTALL</p> <p>MABM5ZIM</p>	<p>SS 316 MKT®</p>  <p>WEDGE ANCHOR BZ-IG PRE-INSTALL</p> <p>MABM4PIM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>WEDGE ANCHOR BZ-IG THROUGH</p> <p>MABM5ZTM</p>	<p>SS 316 MKT®</p>  <p>WEDGE ANCHOR BZ-IG THROUGH</p> <p>MABM4PTM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>DROP-IN ANCHOR E</p> <p>MDIM5ZEM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>DROP-IN ANCHOR ES WITH LIP</p> <p>MDLM5ZSM</p>	<p>SS 316 MKT®</p>  <p>DROP-IN ANCHOR E</p> <p>MDIM4PEM</p>
<p>SS 316 MKT®</p>  <p>DROP-IN ANCHOR ES WITH LIP</p> <p>MDLM4PSM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>SETTING TOOL BZ-IG</p> <p>MATPIM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>SETTING TOOL BZ-IG</p> <p>MATPTM</p>	<p>Z/P MKT® Steel / Plastic</p>  <p>SETTING TOOL HAND GUARD</p> <p>MDTEHM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>HIGHLOAD ANCHOR SZ-SK</p> <p>MAZM5ZKM</p>	<p>SS 316 MKT®</p>  <p>HIGHLOAD ANCHOR SZ-SK</p> <p>MAZM4PKM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>HIGHLOAD ANCHOR SZ-B</p> <p>MAZM5ZBM</p>
<p>SS 316 MKT®</p>  <p>HIGHLOAD ANCHOR SZ-B</p> <p>MAZM4PBM</p>	<p>Z/P MKT® Carbon Steel</p>  <p>HIGHLOAD ANCHOR SZ-S</p> <p>MAZM5ZSM</p>	<p>SS 316 MKT®</p>  <p>HIGHLOAD ANCHOR SZ-S</p> <p>MAZM4PSM</p>	<p>ZYP HEC Class 5.8</p>  <p>CHEMICAL ANCHOR KIT EXT. HEX</p> <p>MCA58YCM</p>	<p>HDG HEC Class 5.8</p>  <p>CHEMICAL ANCHOR KIT EXT. HEX</p> <p>MCA58GCM</p>	<p>HDG HEC Class 5.8</p>  <p>CHEMICAL ANCHOR KIT FLAT TOP STUD</p> <p>MCS58GCM</p>	<p>SS 316 HEC</p>  <p>CHEMICAL ANCHOR KIT FLAT TOP STUD</p> <p>MCS16PCM</p>



German Engineering

Product Guide

CONXTRACT



What is SA TS 101:2015?



SA TS 101:2015 is a **Standards Australia Technical Specification** that covers minimum requirements for anchorage design and product prequalification. The **2016 National Construction Code (NCC)**, officially released in May 2016, refers to **SA TS 101: 2015** as "deemed to satisfy". Together, the revised **NCC** and **SA TS 101: 2015** further uplifts the level of safety and security in safety critical fastenings to concrete. **SA TS 101** covers both design of anchor connections and how anchor products should be prequalified, be it post-installed anchors or cast-in channels. Only anchors that have been prequalified in accordance with the provisions of **SA TS 101** Appendix B can be used with the new standard. Furthermore, **SA TS101** Appendix B

notes that anchor products with acceptable **European Technical Approvals/Assessments (ETA)** may be used with **SA TS101**.

Even before **SA TS 101: 2015**, Hobson Engineering has been supplying **MKT®** mechanical and chemical anchor products that have ETAs, specifically for customers requiring European approved anchor products. Our **MKT®** product portfolio remains strong and ready for the changes in our anchor industry, as a result of the new **NCC** requirements.



Visit www.hobson.com.au for more details.



MKT® products which include the ETA logo are directly compatible with SA TS 101:2015.

PLN Steel MKT® SETTING TOOL V-M MCTVM	MKT® CHEMICAL CAPSULE MCMVPM	VME MKT® Epoxy CARTRIDGE 385ML MCVME0385	VME MKT® Epoxy CARTRIDGE 585ML MCVME0585	VME MKT® Epoxy CARTRIDGE 1400ML MCVME1400	VMU PLUS MKT® Vinylester Resin CARTRIDGE* 280ML MCVMU0280	VMU PLUS MKT® Vinylester Resin CARTRIDGE 345ML MCVMU0345
VMU PLUS MKT® Vinylester Resin CARTRIDGE 410ML MCVMU0410	VM-K MKT® Polyester Resin STYRENE FREE CARTRIDGE* 300ML MCVMK0300	VM-K MKT® Polyester Resin STYRENE FREE CARTRIDGE 345ML MCVMK0345	VM-K MKT® Polyester Resin STYRENE FREE CARTRIDGE 420ML MCVMK0420	VMZ MKT® Injection Adhesive CARTRIDGE* 150ML MCVMZ150	VMZ MKT® Injection Adhesive CARTRIDGE 345ML MCVMZ345	VMZ MKT® Injection Adhesive CARTRIDGE 410ML MCVMZ410

*Can be used with standard caulking guns.

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Product Guide

CONXTRACT



VM-POLAR MKT® Vinylester Resin  CARTRIDGE 345ML MCVMP	Z/P  MKT® Carbon Steel  INT THREAD CHEMICAL STUD V-IG MCIM5ZGM	Z/P  MKT® Carbon Steel  VMZ-A DYNAMIC THREADED STUD MCZM5ZDM	Z/P  MKT® Carbon Steel  VMZ-A THREADED STUD MCZM5ZAM	SS 316  MKT®  VMZ-A THREADED STUD MCZM4PAM	Z/P  MKT® Carbon Steel  VMZ-IG INT THREADED STUD MCZM5ZGM	SS 316  MKT®  VMZ-IG INT THREADED STUD MCZM4PGM
Red Black Silver MKT® Metal / Plastic  VM-P DISPENSER 410-420ML MCVMPS0410	Black MKT® Metal / Plastic  VM-P PROFI DISPENSER 150- 280-300-345ML MCVMPP0345	Black MKT® Metal / Plastic  VM-P PROFI DISPENSER 385ML MCVMPP0385	Black MKT® Metal / Plastic  VM-P PROFI DISPENSER 410-420ML MCVMPP0380	Black MKT® Metal / Plastic  VM-P PROFI DISPENSER 585ML MCVMPP0585	Red Black Silver MKT® Metal / Plastic  VM-P DISPENSER 385-585ML MCVMPC0585	Red Black Silver MKT® Metal / Plastic  VM-P DISPENSER 1400ML MCVMPC1400
PLN MKT® Steel  CLEANING BRUSH TEE HANDLE MCBRH	PLN MKT® Steel  CLEANING BRUSH M6 THREAD MCBRBM	MKT®  VM-AP BLOW-OUT PUMP MCXPB	Z/P MKT® Steel  CLEANING BRUSH EXTENSION MCRBLM6	Z/P MKT® Steel  SDS PLUS ADAPTOR RBL MCRBSM6	Plastic MKT®  STATIC MIXER NOZZLE VM-X MCVMXA	Plastic MKT®  STATIC MIXER NOZZLE VM-XL 12MM HOLE MCVMXL
Plastic MKT®  STATIC MIXER NOZZLE VM-XP 420ML MCVMXP	Plastic MKT®  PERFO SLEEVE VM-SH MCXSNM	Metal MKT®  PERFO SLEEVE VM-SH CUT TO LENGTH MCXSMM	Plastic MKT®  CENTERING SLEEVE VM-ZR MCXSZM	Plastic MKT®  RETAINING WASHER MCVMIA	Plastic MKT®  EXTENSION TUBE VM-XE MCVMXE	Plastic MKT®  EXTENSION TUBE VM-XLE MCVMXLE



DRILLX[®]

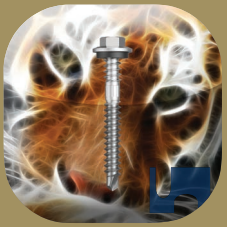
Hobson Engineering DRILLX[®] screws are an innovative and cost-effective Self Drilling Screw with the same Hobson high quality the Australian fastener market demands. Featuring the DX3[™] & DX4[™] coating*.

A massive range of painted screws are held ex-stock as well as painting on request.

* Warranty details available online.

DX3[™]

DX4[™]



Featuring
DXTM4
&
DXTM3
Coatings

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DRILLX[®]


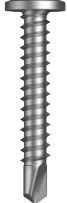

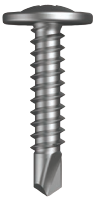

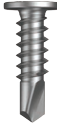
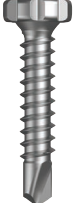
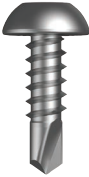


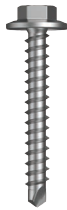



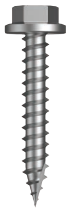
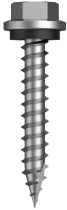

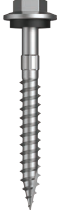
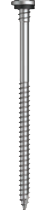
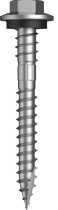
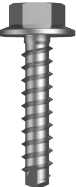

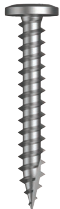
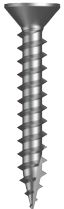
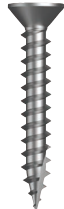
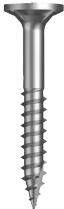
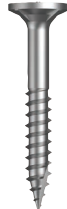
<p>Metal Class 3</p> <p>HEX HEAD FLANGE</p> <p>T9PM3FH</p>	<p>Metal ZYP</p> <p>HEX HEAD FLANGE</p> <p>T9PMYFH</p>	<p>Metal Z/P</p> <p>HEX HEAD FLANGE</p> <p>T9PMZFH</p>	<p>Metal Class 4</p> <p>HEX HEAD FLANGE</p> <p>T9PM4FH</p>	<p>Metal Class 3</p> <p>REDUCED HEX HEAD FLANGE</p> <p>T9PM3RH</p>	<p>Metal Class 4</p> <p>HEX HEAD FLANGE WITH SEAL</p> <p>T9PM4SH</p>	<p>Metal Class 4 Scratchguard[®]</p> <p>HEX HEAD FLANGE WITH SEAL</p> <p>T9PM4SS</p>
<p>Metal Class 4 XGRiP[®] Scratchguard[®]</p> <p>HEX HEAD FLANGE WITH SEAL</p> <p>T9PM4XS</p>	<p>Metal Class 4 XGRiP[®]</p> <p>HEX HEAD FLANGE WITH SEAL</p> <p>T9PM4XH</p>	<p>s500 Class 4</p> <p>HEX HEAD FLANGE</p> <p>T9P54FH</p>	<p>s500 Class 4</p> <p>HEX HEAD FLANGE WITH SEAL</p> <p>T9P54SH</p>	<p>s500 Class 3</p> <p>WAFER HEAD PHILLIPS</p> <p>T9P53WP</p>	<p>Metal ZYP</p> <p>CSK RIBBED WITH WINGS SQUARE DR</p> <p>T9PGYRQ</p>	<p>s500 Class 4 XGRiP[®]</p> <p>HEX HEAD FLANGE WITH SEAL</p> <p>T9P54XH</p>
<p>Metal Class 3</p> <p>CSK RIBBED WITH WINGS SQUARE DR</p> <p>T9PG3RQ</p>	<p>Metal Class 3</p> <p>CSK RIBBED WITH WINGS HEX DR</p> <p>T9PG3SI</p>	<p>Metal Cyclone Class 4</p> <p>HEX HEAD WITH MULTISEAL</p> <p>T9PM4YM</p>	<p>s500 Cyclone Class 4</p> <p>HEX HEAD WITH MULTISEAL</p> <p>T9P54YM</p>	<p>Metal Poly Assembly Class 3</p> <p>HEX HEAD WITH CUTTER & SEAL</p> <p>T9PM3PU</p>	<p>Metal ZYP</p> <p>CSK HEAD PHILLIPS</p> <p>T9PMYCP</p>	<p>s500 Class 4 XGRiP[®]</p> <p>HEX HEAD FLANGE WITH SEAL</p> <p>T9P54XH</p>
<p>Metal Class 3</p> <p>CSK HEAD PHILLIPS</p> <p>T9PM3CP</p>	<p>Metal ZYP</p> <p>CSK RIBBED PHILLIPS</p> <p>T9PMYRP</p>	<p>Metal Class 3</p> <p>CSK RIBBED PHILLIPS</p> <p>T9PM3RP</p>	<p>Metal ZYP</p> <p>PAN HEAD PHILLIPS</p> <p>T9PMYPP</p>	<p>Metal ZYP</p> <p>BUGLE HEAD PHILLIPS</p> <p>T9PMYBP</p>	<p>Metal Z/P</p> <p>BUGLE HEAD PHILLIPS</p> <p>T9PMZBP</p>	<p>Metal Class 3</p> <p>BUGLE BATTEN RIB HEAD HEX DR</p> <p>T9PM3BH</p>

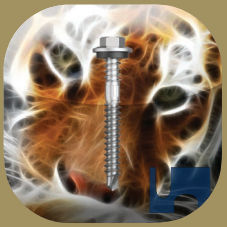
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DRILLX®

Featuring
DX4™
&
DX3™
Coatings



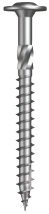
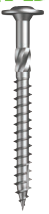

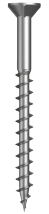
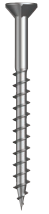
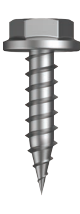
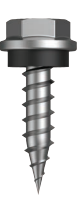
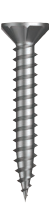
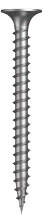
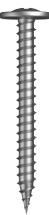
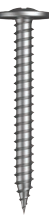
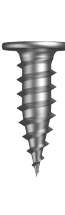

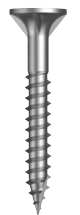
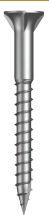

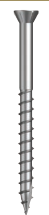
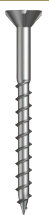
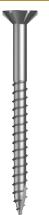
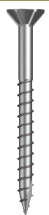
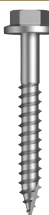
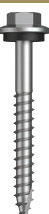
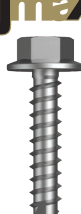
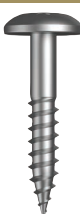
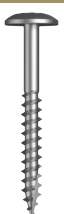

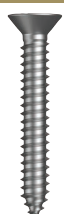

Metal Class 3	Metal Class 3	Metal ZYP	Metal Class 3	Metal ZYP	Metal Class 3	Metal ZYP
						
	WAVER HEAD PHILLIPS	WAVER BUTTON PHILLIPS	WAVER BUTTON PHILLIPS	FLAT HEAD PHILLIPS	FLAT HEAD PHILLIPS	FLOWER HEAD SELF EMBED PHILLIPS
	T9PM3WP	T9PMYAP	T9PM3AP	T9PMYLP	T9PM3LP	T9PMYOP
	Metal Class 3	Framing Screw Class 3	Truss Framing Class 3	Class 3	Class 4 XGRiP® Scratchguard®	Class 4
						
	PAN HEAD TRILOBULAR DRIVE	SERRATED FLAT HEAD PHILLIPS	HEX HEAD FLANGE	BATTEN HEX HEAD FLANGE	HEX HEAD FLANGE WITH SEAL	HEX HEAD FLANGE WITH SEAL
	T9PM3PI	T9PF3EP	T9PF3FH	T9PV3FH	T9PV4XS	T9PV4SH
Poly Assembly Class 3	Type 17 Class 4	Type 17 Class 4	Type 17 Class 4 Scratchguard®	Type 17 Class 4 Scratchguard®	Type 17 Class 4 XGRiP®	Type 17 Class 4 XGRiP® Scratchguard®
						
HEX HEAD WITH CUTTER & SEAL	HEX HEAD FLANGE	HEX HEAD FLANGE WITH SEAL	HEX HEAD FLANGE	HEX HEAD FLANGE WITH SEAL	HEX HEAD FLANGE WITH SEAL	HEX HEAD FLANGE WITH SEAL
T9PV3PU	T9PW4FH	T9PW4SH	T9PW4FS	T9PW4SS	T9PW4XH	T9PW4XS
Class 3	Type 17 Cyclone Class 4	Type 17 Class 3	Type 17 ZYP	Type 17 Class 3	Type 17 Class 3	Type 17 ZYP
						
HEX HEAD FLANGE	HEX HEAD WITH MULTISEAL	FLAT WAFER HEAD PHILLIPS	CSK HEAD PHILLIPS	CSK HEAD PHILLIPS	BUGLE BATTEN RIB HEAD HEX DR	BUGLE BATTEN RIB HEAD HEX DR
T9PJ3FH	T9PW4YM	T9PW3WP	T9PWYCP	T9PW3CP	T9PW3BH	T9PWYBH



Featuring
DXTM4
&
DXTM3
Coatings

Product Guide

DRILLX[®]

Type 17 Class 3  WASHER HEAD HEX DR T9PW3GI	Type 17 TYKOTE  WASHER HEAD HEX DR T9PWTGI	Type 17 TYKOTE  WASHER HEAD TORX DR T9PWTGO	Chipboard ZYP  CSK RIBBED PHILLIPS T9PDYRP	Treated Pine Class 3  CSK SELF EMBEDDING SQUARE DR T9PD3SQ	Needle Point Class 4  HEX HEAD FLANGE T9PN4FH	Needle Point Class 4  HEX HEAD FLANGE WITH SEAL T9PN4SH
Needle Point ZYP  CSK RIBBED PHILLIPS T9PNYSP	Needle Point Plasterboard ZYP  BUGLE HEAD PHILLIPS T9PNYBP	Needle Point Class 3  LARGE WAFER PHILLIPS T9PN3AP	Needle Point ZYP  LARGE WAFER PHILLIPS T9PNYAP	Needle Point Class 3  FLAT HEAD PHILLIPS T9PN3LP	Needle Point ZYP  FLAT HEAD PHILLIPS T9PNYLP	Type 17 SS 304  BUGLE BATTEN 4 RIBS HEX DR T04WSBH
Type 17 SS 316  BUGLE BATTEN 4 RIBS SQUARE DR T16WSBQ	Type 17 SS 304 TDX  TRIM HEAD 4 RIBS SQUARE DR T04WSTD	Type 17 SS 304  TRIM HEAD 6 RIBS SQUARE DR T04WSTQ	Needle Point SS 304  CSK HEAD 4 RIBS SQUARE DR T04NS4Q	Type 17 SS 304  CSK HEAD 6 RIBS SQUARE DR T04WS6Q	Type 17 SS 316  CSK SELF EMBEDDING SQUARE DR T16WSSQ	Type 17 SS 316  HEX HEAD FLANGE T16WSFH
Type 17 SS 316  HEX HEAD FLANGE WITH SEAL T16WSSH	SS 316 jmax  HEX HEAD FLANGE T16JSFH	Needle Point SS 304  BUTTON HEAD SQUARE DR T04NSUQ	Type 17 SS 316  BUTTON HEAD SQUARE DR T16WSUQ	Zinc Black ANSI B18.6.4  CSK HEAD SELF TAPPER PHILLIPS T9PSVCP	Z/P ANSI B18.6.4  CSK HEAD SELF TAPPER PHILLIPS T9PSZCP	Zinc Black ANSI B18.6.4  CSK HEAD SELF TAPPER SQUARE DR T9PSVCQ

Product Guide

DRILLX®

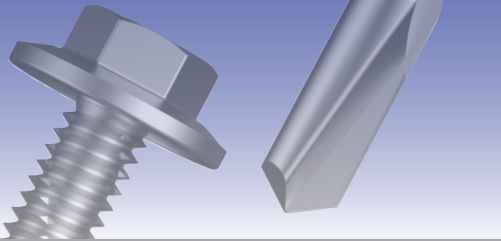
Featuring
DX4™
&
DX3™
Coatings

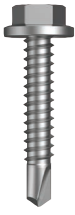

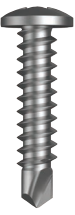
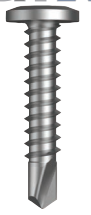
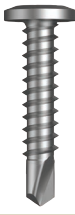

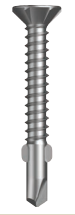



Z/P ANSI B18.6.4  CSK HEAD SELF TAPPER SQUARE DR T9PSZCQ	Zinc Black ANSI B18.6.4  PAN HEAD SELF TAPPER PHILLIPS T9PSVPP	Z/P ANSI B18.6.4  PAN HEAD SELF TAPPER PHILLIPS T9PSZPP	Zinc Black ANSI B18.6.4  PAN HEAD SELF TAPPER SQUARE DR T9PSVPQ	Z/P ANSI B18.6.4  PAN HEAD SELF TAPPER SQUARE DR T9PSZPQ	Z/P HEC  ELECTRICAL PANEL SCREW PHILLIPS T9PPZAP	DX4™ Class 4 AS3566 DX3™ Class 3 AS3566
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Bi-FIX™

A Bi-Metallic screw, is comprised of two metal types. The point is manufactured from high carbon steel that is heat treated to give it the ability to self-drill. The head section is manufactured from a corrosion resistant stainless steel (304 or 316). The two metals are "fused together" to form a screw that offers excellent self-drilling properties, combined with exceptional corrosion resistance.



Metal SS 304 BI-Metal Bi-FIX  HEX HEAD T4MXHH	Metal SS 304 BI-Metal Bi-FIX  HEX HEAD WITH AL SEAL T4MXAH	Metal SS 304 BI-Metal Bi-FIX  PAN HEAD PHILLIPS T4MXPP	Metal SS 304 BI-Metal Bi-FIX  WAFFER HEAD PHILLIPS T4MXWP
BI-Metal SS 316 Bi-FIX  WAFFER HEAD SQUARE DR T6MXWQ	s500 SS 304 BI-Metal Bi-FIX  HEX HEAD FLANGE T4X5FH	Metal SS 304 BI-Metal Bi-FIX  CSK HEAD WITH WINGS SQUARE DR T4XGXRQ	s500 SS 304 BI-Metal Bi-FIX  CSK HEAD WITH WINGS SQUARE DR T4XHXRQ

TDX®

Timber decking screw. Featuring: corrosion resistant stainless steel; a special point, cut and thread; a trim head; a No.1 square drive and square thread for greater holding power which prevents the deck from lifting.

Scratchguard®

Improves resistance to corrosion by protecting the fastener shank from severe scratching or scouring that can occur when fixing metal roofing.

vmaX®

vmaX® feature a universal drilling point. Suitable for fastening roof sheeting to thin metal battens, timber trusses and steel purlins up to 1.9mm thick.

TYKOTE®

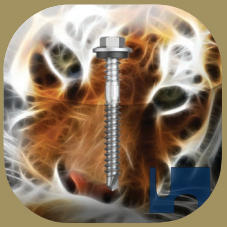
A high performance coating, specially formulated for resisting treated pine chemicals.

jmaX™

Engineered point for self-drilling and fixing metal plate to timber without splitting.

XGRiP®

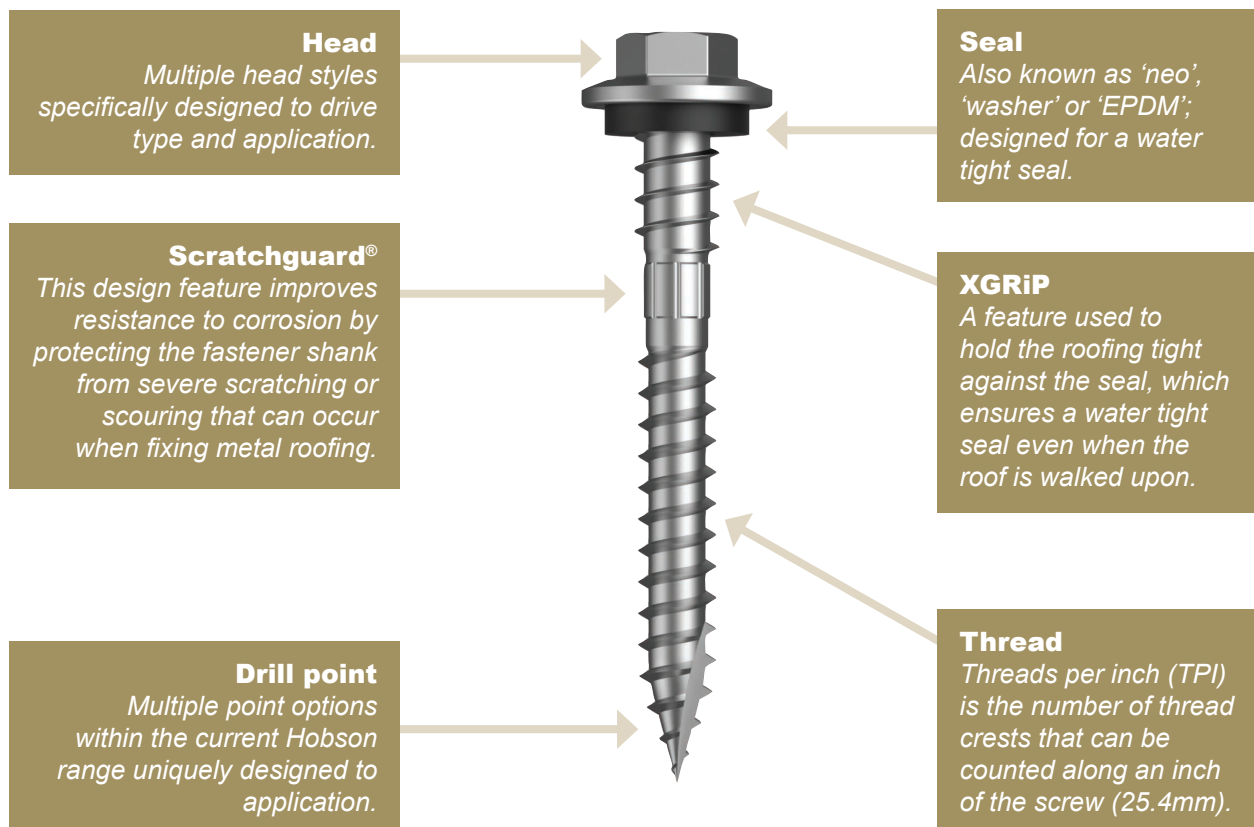
XGRiP® holds the roofing tight against the seal, which ensures a water tight seal even when the roof is walked upon.



Technical info **DRILLX**

Self Drilling Screws

Manufactured for specific applications, these screws eliminate the need for pre-drilled holes and are engineered for ease of use. Basic features of the screw include:

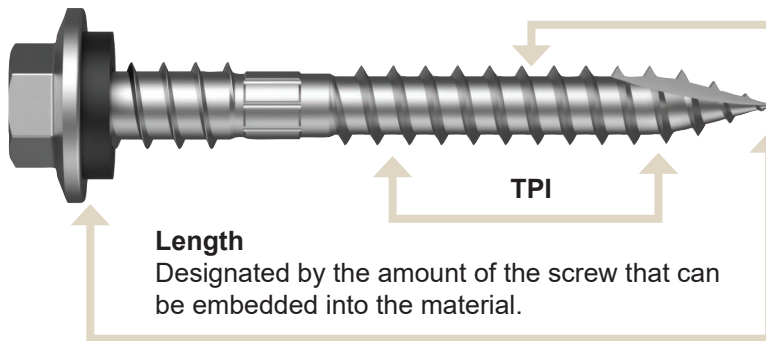


Screw Size and Type Identification

To identify the best screw for an application we require some simple information such as:

- What **materials** are being fastened to (e.g. steel or timber)?
- What is the **application** (e.g. roofing, decking, cladding)?
- What **corrosion protection** is required (e.g. internal or external)?
- What is the total **thickness** of the material(s) being fastened?
- What is the preferred **head style**?

Screw Size and Type Identification



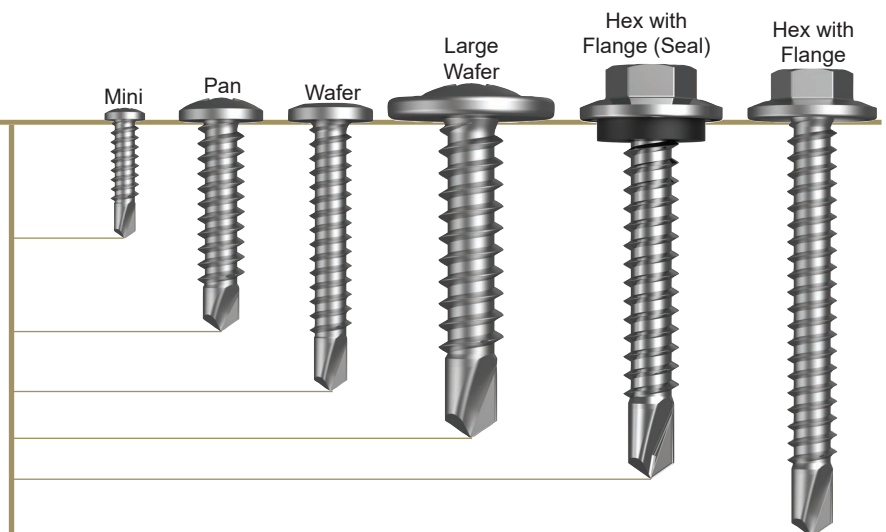
Screw Gauge

Thickness of thread major diameter.

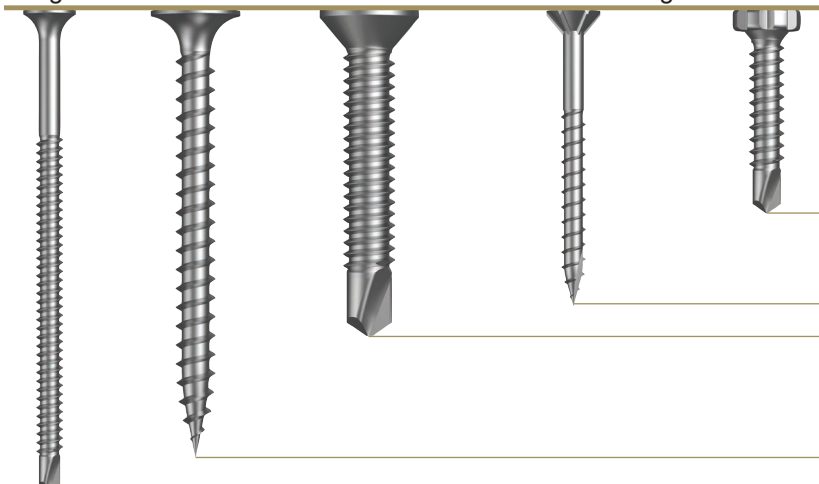
Gauge	Major Diameter
6g	3.5mm
8g	4.2mm
10g	4.8mm
12g	5.5mm
14g	6.3mm

Measuring the Length of Screws

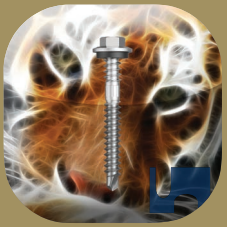
Screw types to measure from the underside of the head



Bugle Plasterboard Countersunk Self Embedding Flower



Screw types to measure from the top of the head



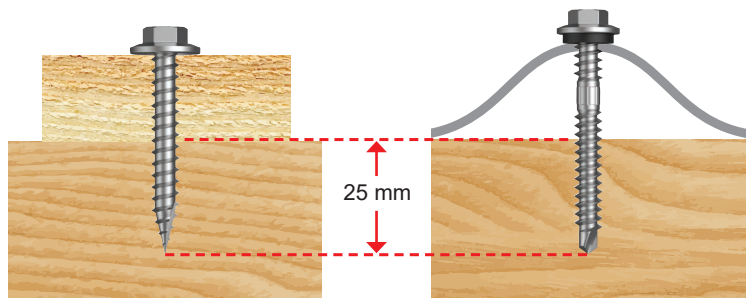
Technical info DRILLX®

Screw Embedment

Maximises the ability of the screw to achieve the required pull out loads.

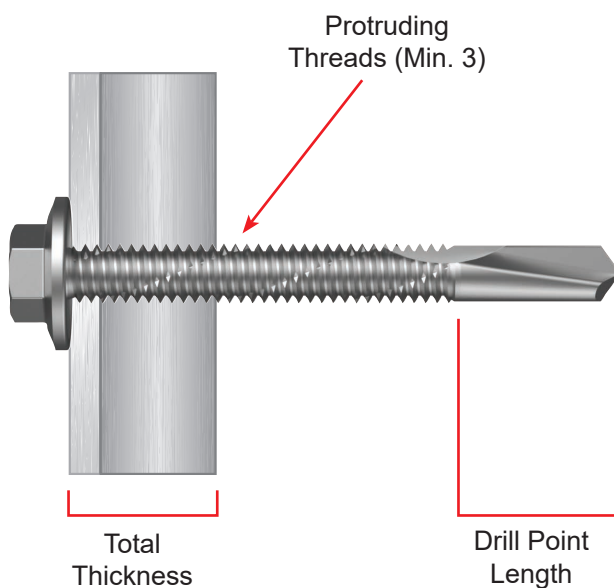
Timber

As a general rule, the minimum embedment required to achieve maximum pull out values is 25mm for #12 and 35mm for #14.

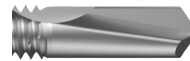


Metal

A minimum of three threads protruding to achieve maximum pull out values.

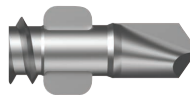


Screw Identification by Point Type:



Series 500 (S)

Commonly referred to as a deep driller, this point is designed for drilling and fastening into thick steel.



Winged (G)

This point is designed for fastening timber and/or composite materials to steel. The wings drill a hole through the timber or composite which is wider than the threads, preventing the threads from lifting the material and allowing the screw to self drill into the steel. The wings break off once the steel is engaged.



Metal Point (M)

This point is designed for drilling steel sections such as purlins, tophats, roofing and cladding. The length of the point will vary depending on steel thickness designed to drill.



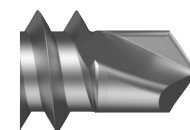
Type 17 (W)

This point is designed for drilling through lighter steel sections and fastening with timber.



Needle Point (N)

This point is used on screws of a general purpose nature.



vmaX® (V)

Universal drilling point, suitable for fastening steel to timber. Ideal for roofing applications.

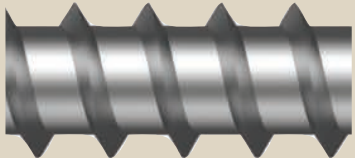
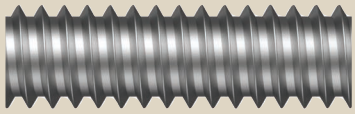


Chipboard / Treated Pine (D)

This point is designed for fastening chipboard or timber.

Determining Thread Type

Thread per inch (TPI) is the number of thread crests that can be counted along an inch (25.4mm).

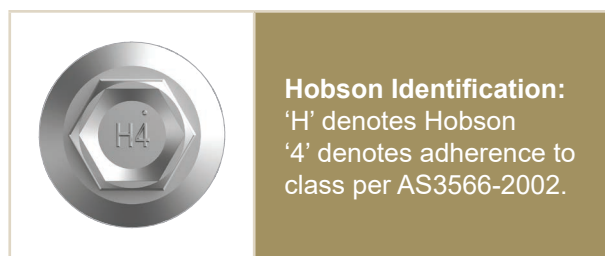
	<p>Coarse thread (up to 16TPI)</p> <p>Otherwise known as space threads, screws with a <i>coarse thread</i> are generally used for timber applications and for lighter steel sections.</p> <ul style="list-style-type: none"> → Simple rule of thumb – coarse thread secures lighter steel sections. → Typical applications in pre-engineered steel buildings include: cladding, framing and roofing. → Common sizes include 10g-16TPI; 12g-14TPI and 14g-10TPI.
	<p>Fine thread (over 16TPI)</p> <p>Generally known as <i>metal threads</i>, these screws are only used in steel applications and particularly thicker steels from 2mm upward.</p> <ul style="list-style-type: none"> → Simple rule of thumb – fine thread secures heavier steel sections. → Typical applications in pre-engineered steel buildings include: framing (brackets to purlins) and roofing (lapped purlins). → Common sizes include 8g-18TPI; 10g-24TPI and 12g-24TPI.

Identifying Head Stamping





As per the AS 3566.1—2002 1.12 MARKING, the requirement for head stamping follows:

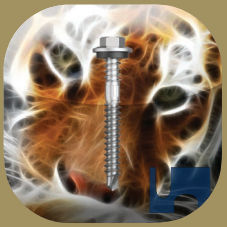
The manufacturer's identification mark and/or trademark shall be marked on the heads of the following screws:

- (a) Hexagon headed screws ST 4.8 (No. 10) and larger.
- (b) Bugle head screws Type 17 ST 4.8 (No. 10) and larger.
- (c) Class 3 or Class 4 corrosion resistant screws ST 4.8 (No. 10) and larger.



Drive Types

	Slotted		Torx
	Phillips		Post Torx
	Combi Slot Phillips		Eye
	Square		Pozi
	Hex		Trilobular
	Post Hex		



Product Guide

Rivets, Drive Bits & Washers

<div>SS 316</div> <div></div> <div>DOME HEAD OPEN RIVET</div> <div>R1673OLL</div>	<div>5052 AL Steel ZP</div> <div></div> <div>DOME HEAD OPEN RIVET</div> <div>R9P73OAS</div>	<div>Steel ZP</div> <div></div> <div>DOME HEAD OPEN RIVET</div> <div>R9P73OSS</div>	<div>Monel Steel ZP</div> <div></div> <div>DOME HEAD OPEN RIVET</div> <div>R9P73OMS</div>	<div>5052 AL Steel ZP</div> <div></div> <div>DOME HEAD OPEN RIVET LARGE FLANGE</div> <div>R9P73LAS</div>	<div>5052 AL Steel ZP</div> <div></div> <div>COUNTERSUNK OPEN RIVET</div> <div>R9P72OAS</div>	<div>5052 AL Steel ZP</div> <div></div> <div>DOME HEAD MULTI-GRIP RIVET</div> <div>R9P73MAS</div>																											
<div>5052 AL Steel PHOS</div> <div></div> <div>DOME HEAD SEALED RIVET</div> <div>R9P73TAP</div>	<div>Copper Steel PHOS</div> <div></div> <div>DOME HEAD SEALED RIVET</div> <div>R9P73TCP</div>	<div>5052 Aluminium</div> <div></div> <div>DOME TRIFORM RIVET WITH WASHER</div> <div>R9P73WAA</div>	<table><tr><th>Shell Material</th><th>Stem (mandrel) Material</th><th>Code</th></tr><tr><td>Aluminium 5052</td><td>Steel Zinc Plated</td><td>AS</td></tr><tr><td>Aluminium 5056</td><td>Steel Zinc Plated</td><td>6S</td></tr><tr><td>Steel</td><td>Steel Zinc Plated</td><td>SS</td></tr><tr><td>Aluminium 5052</td><td>Steel Phosphated</td><td>AP</td></tr><tr><td>Stainless Steel</td><td>Stainless Steel</td><td>STST (LL)</td></tr><tr><td>Monel</td><td>Steel Zinc Plated</td><td>MS</td></tr><tr><td>Copper</td><td>Steel Phosphated</td><td>CP</td></tr><tr><td>Aluminium</td><td>Aluminium</td><td>AA</td></tr></table>				Shell Material	Stem (mandrel) Material	Code	Aluminium 5052	Steel Zinc Plated	AS	Aluminium 5056	Steel Zinc Plated	6S	Steel	Steel Zinc Plated	SS	Aluminium 5052	Steel Phosphated	AP	Stainless Steel	Stainless Steel	STST (LL)	Monel	Steel Zinc Plated	MS	Copper	Steel Phosphated	CP	Aluminium	Aluminium	AA
Shell Material	Stem (mandrel) Material	Code																															
Aluminium 5052	Steel Zinc Plated	AS																															
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Monel	Steel Zinc Plated	MS																															
Copper	Steel Phosphated	CP																															
Aluminium	Aluminium	AA																															
<div>PLN HEC</div> <div></div> <div>MAGNETIC NUT SETTER</div> <div>TXDSIS</div>	<div>PLN HEC</div> <div></div> <div>POWER DRIVE BIT PHILLIPS</div> <div>TXDRPS</div>	<div>PLN HEC</div> <div></div> <div>POWER DRIVE BIT HEX</div> <div>TXDRHS</div>	<div>PLN HEC</div> <div></div> <div>POWER DRIVE BIT SQUARE</div> <div>TXDSQS</div>	<div>PLN HEC</div> <div></div> <div>POWER DRIVE BIT TRILOBULAR</div> <div>TXDRAS</div>	<div>PLN HEC</div> <div></div> <div>DOUBLE ENDED DRIVE BIT PHILLIPS</div> <div>TXDDPS</div>	<div>PLN HEC</div> <div></div> <div>INSERT DRIVE BIT SQUARE</div> <div>TXDBQ</div>																											
<div>PLN HEC</div> <div></div> <div>INSERT DRIVE BIT HEX</div> <div>TXDSHS</div>	<div>PLN HEC</div> <div></div> <div>INSERT DRIVE BIT PHILLIPS</div> <div>TXDSPS</div>	<div>PLN HEC</div> <div></div> <div>MAGNETIC BIT HOLDER</div> <div>TXDMIS</div>	<div>PLN HEC</div> <div></div> <div>EPDM SEAL FLUTED</div> <div>TXW9PEFS</div>	<div>PLN HEC</div> <div></div> <div>EPDM SEAL SMOOTH</div> <div>TXW9PEPS</div>	<div>EPDM HEC</div> <div></div> <div>DOME EPDM WASHER</div> <div>TXW9PPCM</div>	<div>PLN HEC</div> <div></div> <div>CYCLONE MULTISEAL WASHER</div> <div>TXW9PYM</div>																											

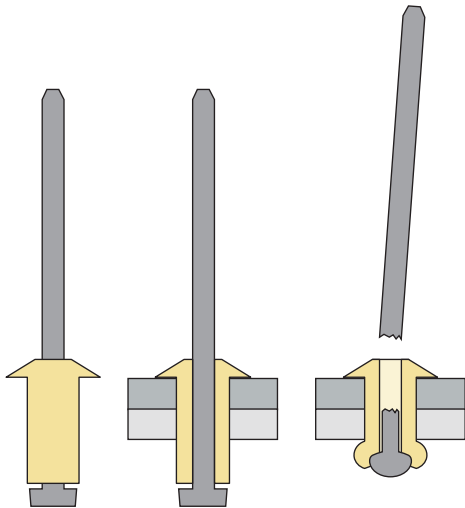
Technical info

Rivets



Rivet Head Types

The most common rivets are the Truss type often referred to as Dome head or type 73, and the Countersunk head, known as type 72.



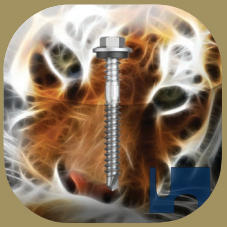
Head

Truss Head (Open) Dome	O	Protrudes above the face of the job, and used in most industrial applications.
Countersunk (Open)	O	No part of the fastener protrudes from the face of the material.
Large Flange Head	L	Large head diameter used for fastening soft materials.

Type

Open	O	The set rivet is not sealed by the stem.
Sealed	T	The mandrel is attached to the inside of the shell which ensures there are no gaps for water or air.
Multi-Grip	M	Provides a secure joint across various grip ranges.
Peel	P	Provide good cohesion of soft materials without distortion. Useful for uneven surfaces.
Grooved	G	Grooves around the shell mean effective holding power when set in less stiff materials e.g. Plastic
Triform (with washer)	W	During setting, the rivet body splits into 3 parts, preventing the material from being damaged.

Head	Type	Head Designation	
Truss Head (Dome Head) / Large Flange Head	Open	73	
Countersunk Provides a completely flush finished surface.	Open	72	
Truss Head (Dome Head) / Large Flange Head	Sealed	73	
Countersunk	Sealed	72	
Truss Head (Dome Head)	Peel	73	
Truss Head (Dome Head)	Multi-Grip	73	
Truss Head (Dome Head)	Triform	73	



Technical info

Paint Heads

To find a rivet or screw in any of the colours below, simply replace the **9P** in the part number with the colour code in brackets.

Example: If you choose the colour

PAPERBARK® (PA)

T9PM4FH1016016 (no paint)



TPAM4FH1016016 (painted)



R9P73OAS404 (no paint)



RPA73OAS404 (painted)



Hobson stock DRILLX® screws and rivets with painted heads in the Colorbond® range of colours.

BASALT® (BA)	HEADLAND® (HE)	PLANTATION® (PL)
BLUE RIDGE® (BR)	IRONSTONE® (IS)	PRIMROSE™ (PR)
BUSHLAND® (BU)	JASPER® (JA)	SANDBANK® (SA)
CLASSIC CREAM™ (CC)	LOFT® (LO)	SHALE GREY™ (SG)
COTTAGE GREEN® (CG)	MANGROVE® (MA)	STONE® (ST)
COVE® (CO)	MANOR RED® (MR)	SURFMIST® (SM)
DEEP OCEAN® (DO)	MONUMENT® (MO)	TERRAIN® (TE)
DOVE WHITE™ (DW)	NIGHT SKY® (NS)	WALLABY® (WA)
DUNE® (DU)	PALE EUCALYPT® (PE)	WILDERNESS® (WI)
EVENING HAZE® (EH)	PALE TERRACOTTA™ (PT)	WINDSPRAY® (WN)
GULLY® (GU)	PAPERBARK® (PA)	WOODLAND GREY® (WG)

● ○ Discontinued Colours - Screws painted upon request

*Colours are representative only

Colorbond® is a registered trademark of BlueScope Steel Limited.

Did You Know

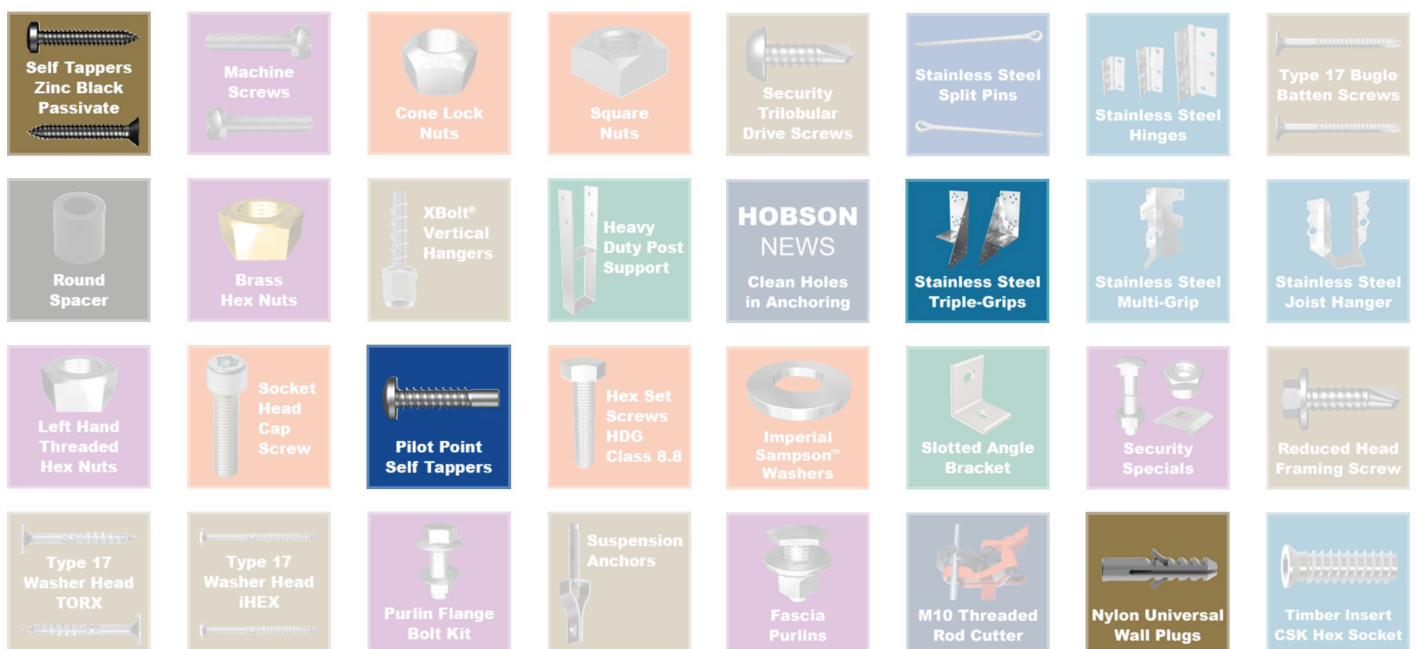
about our...



HOBSON PRESS

New and featured products

The screenshot shows the Hobson Engineering website homepage. At the top is the Hobson Engineering logo and a navigation menu with links: HOME, BRANDS, PRODUCTS, COMPANY, and WHERE TO BUY. Below the menu is a large banner with the text "You can find them all HERE" and a large question mark. To the right of the banner are sections for "NATA" accreditation, "HOBSON ARTICLES", "HOBSON NEWS", and a "Did You Know" section. Further right is a search bar and a section for "Innovation" featuring "SOKO", "BUMAX", and "SCHNORR". At the bottom of the banner area are three columns: "Brands" (listing Bumax®, Schnorr®, Conxtract®, Nord-Lock®, and Hobson®), "Products" (listing All Products, High-Tensile, Structural, DRILLX® Screws, Commercial, Stainless Hardware, and Washers), and "Technical" (listing Technical Search, Breaking Strength, Structural Installation, Anti-Vibration Paper, Pitch Table, Schnorr® Benefits, and Thin Lock Nut Install).



Quality Fasteners Since 1935



www.hobson.com.au



ANYTHING WITH A THREAD

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