ASSDA

Australian Stainless Steel Development Assoc.

STAINLESS STEEL STOCK GUIDE

EDITION 5 – AUGUST 2020

A generic stock list of products reported to be regularly available ex stock.
Essential information for anyone designing in stainless steel.

HOW TO USE THIS GUIDE

The *ASSDA Stainless Steel Stock Guide* has been produced from information provided to ASSDA by suppliers and is intended as a general indication of common availability only. ASSDA does not warrant the accuracy or completeness of the information contained in the Guide, does not warrant the availability of any particular product and does not accept any liability for errors or omissions in the Guide or the unavailability of particular products.

In addition to the products listed in this Guide, other products are available but stocked less frequently. Australian suppliers have the capacity to tailor many products to individual specifications. Special product runs can be arranged provided sufficient time is allowed. Please contact your local supplier for details. A list of suppliers is provided on the Australian Stainless Steel Development Association's website – www.assda.asn.au.

Specifiers are urged to use this Guide and, where appropriate, consult with suppliers at an early stage in any project. The use of ex-stock or readily sourced products is likely to be of significant benefit to any project.

STAINLESS STEEL

Alloy steels contain, by weight, 1.2% or less of carbon and 10.5% or more of chromium with or without other elements. Iron must be the predominant element. Detailed technical information on stainless steels is given on the ASSDA website and in ASSDA publications. Particularly relevant information for specifiers and users is given in the ASSDA's *Australian Stainless Reference Manual*. Stainless steel suppliers also have information which complements advice from ASSDA.

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DISCLAIMER

The technical information contained in this publication should not be relied on for specific applications without first securing competent advice. Whilst all care is taken to ensure that information contained herein is accurate and up-to-date, ASSDA does not warrant its accuracy or completeness and does not accept liability for errors or omissions.

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ABBREVIATIONS

ANN	Annealed
AW	As Welded
AWBP	As Welded Buff Polished
BA	Bright Annealed
BD	Bright Drawn
CD	Cold Drawn
CF	Cold Finished (cold drawn or smooth turned)
CG	Centreless Ground
CW	Cold Worked
CWA	Cold Worked Annealed
DN	Diameter Nominal
DSC	Drawn Seamless Coil
H&T	Hardened and Tempered
HRA	Hot Rolled, Annealed
HRAP	Hot Rolled, Annealed And Pickled (also referred to as No. 1)
POL	Polished
PC	Polyethylene (PE) Coated
RT	Rough Turned
SMLS	Seamless
SRE	Slit Rolled Edge
ST	Spring Temper
WLD	Welded
2B	Cold Rolled with Polished Rollers, Annealed, Pickled and Lightly Re-rolled

METRIC OR IMPERIAL?

Both metric and imperial sized products are available in the Australian market. In some products, both sizes are available. In other products, only the metric or only the imperial sizes are commonly available.

Where there are metric and imperial sizes that are very close it is possible that both will not always be available. It is recommended that stockists be consulted at an early stage where exact sized product is required.

Some examples are provided below.

Flat Product

Ordering at standard width and thickness is the best way to keep steel costs down. Each mill has equipment capable of a certain maximum width and running narrower steel is less productive. The standard width varies from mill to mill, with most European mills following the metric system and mills in Asia using imperial widths. The following table shows the comparison:

COMMONLY AVAILABLE FLAT PRODUCT WIDTHS FROM STAINLESS MILLS

WIDTH (mm)	EUROPE	ASIA
900	✗	✗
914	✗	✓
1000	✓	✗
1200	✗	✗
1219	✗	✓
1250	✓	✗
1500	✓	✗
1524	✗	✓
2000	✓	✓

✓ = READILY AVAILABLE
✗ = SOMETIMES (BUT NOT READILY) AVAILABLE

Round bar

Round bar is commonly available in imperial sizes, e.g. 15.88 mm, but may also be available in hard metric sizes,e.g. 16.00 mm diameter.

In some product areas, particularly flat product, the metric size appears and is taken to include the closest imperial measurement. Users of this Guide are strongly advised to contact their supplier to determine available sizes at an early stage in the design process.

DUAL CERTIFIED?

Product in grades 304 and 316 is often available ex-stock in "dual certified" 304/304L and 316/316L form. This is particularly so for plate, pipe and bar. This means it has the low carbon chemistry of the L grade while retaining the strength of the standard carbon grade. Stockists should be consulted for further information.

SHEET, COIL AND PLATE

SHEET, COIL AND PLATE

Product Description

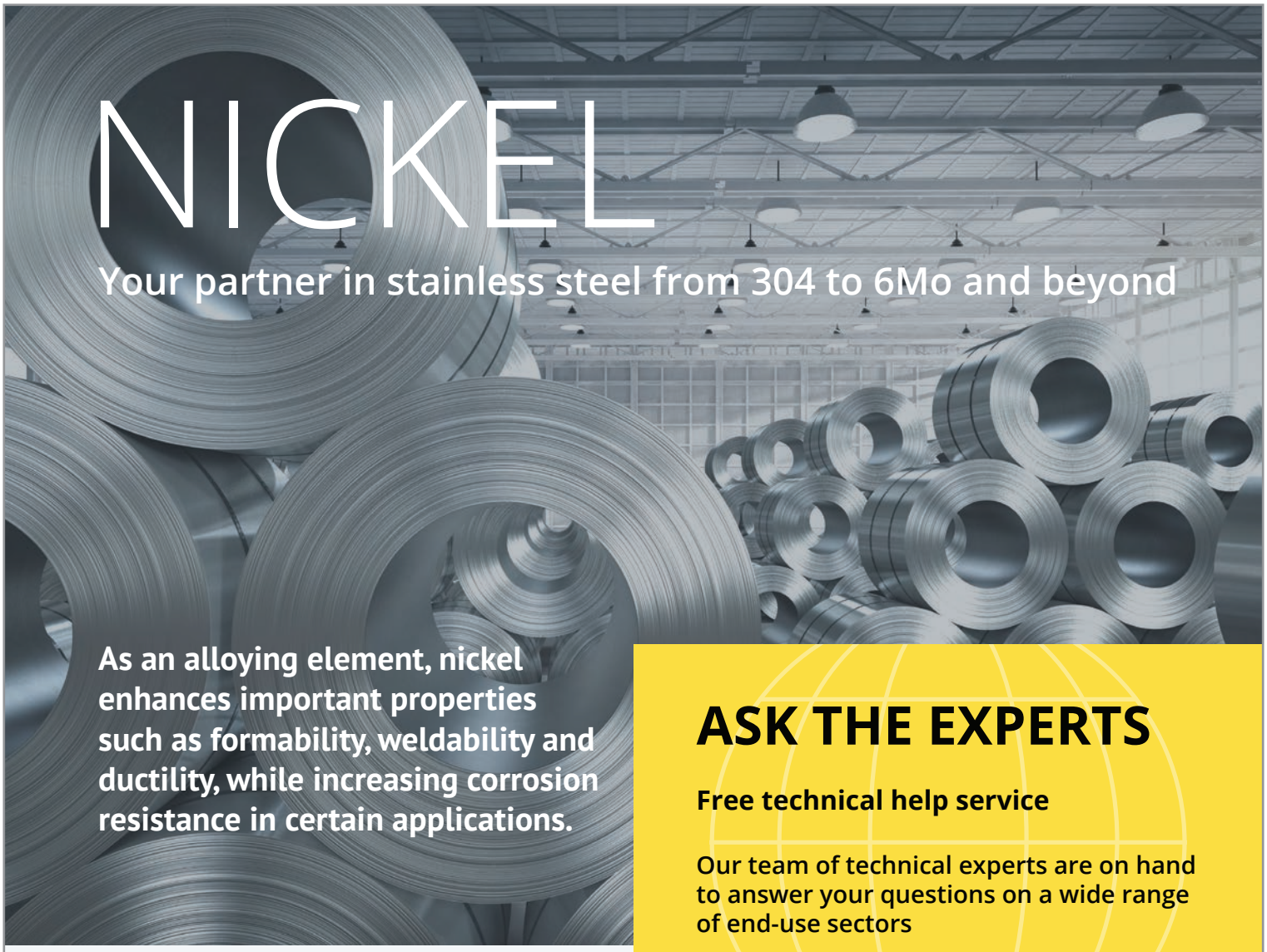
Flat product up to and including 4.75 mm in thickness, with a 2B, 2D or BA finish, is referred to as sheet although it may be delivered in coils or as flat sheet. Plate is flat product greater than 4.75 mm thick with a No. 1 finish; 2B finish may be available in some products up to 8.00 mm.

This Guide lists cold rolled products (generally 2B, BA or No. 4 finish) as "Coil" or "Sheet", and hot rolled products (No. 1 / HRAP finish) as "Plate". Dimensional tolerances and surface roughness are determined by the production process - hot or cold rolled - not by the description of Coil or Plate.

Cut-to-length processing lines allow custom lengths of sheet or plate (up to 13,000 mm) to be produced from ex-stock coil.

Relevant Standards

ASTM A240/A240M	Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications.
ASTM A480/A480M	General Requirements for Flat Rolled Stainless and Heat-Resisting Steel Plate, Sheet and Strip.
ASTM A666	Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
ASTM A895	Free-Machining Stainless Steel Plate, Sheet, and Strip.
EN/ISO 9445	Continuously Cold-Rolled Stainless Steel - Tolerances on Dimensions and Form.
EN 10028-7	Flat Products Made of Stainless for Pressure Purposes - Stainless Steels.
EN 10029	Hot-Rolled Steel Plates 3 mm Thick or Above - Tolerances on Dimensions and Shape.
EN 10088-2	Stainless Steels. Technical Delivery Conditions for Sheet/Plate and Strip for General Purposes.



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knowledge for a brighter future

STAINLESS STEEL SHEET

THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)*	304 2B	304 No. 4 PC	304 BA PC	316/ 316L 2B	316 No. 4 PC	321 2B	430 No. 4 PC	430 BA PC	F.SUB (304)# 2B	F.SUB (304)# No. 4 PC	F.SUB (316)# 2B	F.SUB (316)# No. 4 PC	LEAN DUPLEX	DUPLEX 2B	3CR12/ 5CR12	253 MA
2.00	914	1800	•	•		•												
		2400	•	•		•												
		3000	•															
	1219	1800	•	•		•												
		2400	•	•		•	•	•			•	•	•	•			•	
		3000	•	•		•					•	•					•	
	1250	2500													•		•	
	1500*	2400	•	•		•		•										
		3000	•	•		•		•								•	•	
	2000	3000														•		•
2.50	914	1800	•															
		2400	•															
	1219	1800	•	•														
		2400	•	•		•							•	•				
		3000	•	•														
	1500*	3000	•			•												
3.00	914	1800	•			•												
		2400	•			•												
	1219	1800	•	•		•												
		2400	•	•		•	•	•					•	•			•	
		3000	•	•		•												
	1250	2500														•		•
	1500*	3000	•	•		•		•								•	•	
		6000	•			•		•								•	•	
	2000	3000				•									•			
	2000	6000	•			•									•	•		•
4.00	1219	2400	•			•											•	
	1500*	3000	•			•												
		6000	•			•												
	2000	6000	•			•												

* This size also covers the closest imperial measurement (1524 mm). Check with your stockist for availability. For more information on metric and imperial sizing, turn to page 5.

\# Ferritic stainless steel as a substitute for grade 304/316

Cold rolled product, i.e. 2B finish, is less usual above 5 mm thickness. HRAP (No. 1) finish is found in plate product.

Refer to ASSDA's *Australian Stainless Reference Manual* for mass calculations and density differences between austenitic, ferritic and duplex stainless steel.

For details of dimensional tolerances, refer to applicable standards.
This table is a guide only and should not be used to determine availability of product. Call your supplier or ASSDA to determine availability.

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STAINLESS STEEL SHEET (CONTINUED)

THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)*	304 2B	304 No. 4 PC	304 BA PC	316/ 316L 2B	316 No. 4 PC	321 2B	430 No. 4 PC	430 BA PC	F.SUB (304)# 2B	F.SUB (304)# No. 4 PC	F.SUB (316)# 2B	F.SUB (316)# No. 4 PC	LEAN DUPLEX	DUPLEX 2B	3CR12/ 5CR12	253 MA
0.45	914	1800	•															
		2400	•	•														
	1219	1800	•			•												
		2400	•	•		•				•								
0.55	914	1800	•	•						•								
		2400	•	•														
	1219	1800	•	•		•												
		2400	•	•		•	•			•	•	•	•	•				
0.70	914	1800	•	•					•	•								
		2400	•	•					•	•								
	1219	1800	•	•		•				•								
		2400	•	•		•	•		•	•	•	•	•	•				
		3000	•	•					•									
0.90	914	1800	•	•		•	•		•	•								
		2400	•	•					•			•						
	1219	1800	•	•		•			•	•								
		2400	•	•	•	•	•		•	•	•	•	•	•				
		3000	•	•		•						•	•	•				
		3600	•	•								•	•	•				
1.20	914	1800	•	•		•	•											
		2400	•	•		•						•						
		3000	•	•														
		3600		•														
	1219	1800	•	•		•						•	•	•				
		2400	•	•	•	•	•	•	•	•	•	•	•	•				
		3000	•	•								•	•	•				
		3600		•								•	•	•				
	1500*	3000	•	•		•												
		3600		•														
1.50/1.60	914	1800	•	•		•												
		2400	•	•		•												
		3000		•														
		3600	•	•														
	1219	2400	•	•	•	•	•	•			•	•	•	•			•	
		3000	•	•		•					•	•	•	•			•	
		3600		•		•						•	•	•				
	1250	2500													•			•
	1500*	2400	•	•		•												
		3000	•	•		•	•									•		

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STAINLESS STEEL COIL

THICKNESS (mm)	WIDTH (mm)	304 2B	304 No. 4 PC	304 BA PC	304 HRAP	316/ 316L 2B	316 No. 4 PC	316L HRAP	321 2B	321 HRAP	430 BA PC	430 No. 4 PC	F.SUB 304# 2B	F.SUB 304# No. 4 PC	F.SUB 316# 2B	F.SUB 316# No. 4 PC	LEAN DUPLEX	DUPLEX 2B	3CR12/ 5CR12	253 MA
0.45	914	•				•														
	1219	•				•					•									
0.50	914	•									•									
	1219	•				•					•									
0.55	914	•		•		•					•									
	1219	•				•					•		•	•	•	•				
0.70	914	•	•	•		•					•	•	•	•						
	1219	•	•	•		•					•	•	•	•	•	•				
0.90	600	•	•																	
	750	•	•								•	•								
	914	•	•			•					•	•	•	•						
	1219	•	•	•		•	•				•	•	•	•	•	•				
1.20	600	•	•																	
	750	•	•																	
	914	•	•								•	•	•	•						
	1000	•	•																	
	1219	•	•	•		•	•		•		•	•	•	•	•	•			•	
	1500*	•	•																	
1.50/1.60	914	•	•			•														
	1000		•																	
	1219	•	•			•	•		•				•	•	•	•			•	•
	1250																•			
	1500*	•	•			•												•		
	2000																	•		
2.00	914	•	•			•														
	1219	•	•			•	•		•				•	•	•	•		•	•	
	1250																•			
	1500*	•				•												•	•	
	2000																	•		•
2.50	914	•																		
	1219	•				•									•	•			•	
	1500*	•				•														
3.00	914	•				•														
	1219	•				•			•						•	•			•	
	1500*	•				•			•									•	•	
	2000	•				•											•	•		•
4.00	1500*	•			•	•		•											•	
	2000	•			•	•		•										•		•
5.00	1500*	•			•	•		•	•										•	
	2000	•			•	•		•	•											
6.00	1500*	•			•	•		•	•										•	
	2000	•			•	•		•		•									•	
8.00	1500*	•			•	•		•											•	
	2000				•			•												
10.00	1500*				•			•		•										
	2000				•			•												

Ferritic stainless steel as a substitute for 304/316

* This size also covers the closest imperial measurement (1524 mm). Check with your stockist for availablility.
For more information on metric and imperial sizing, turn to page 5.

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STAINLESS STEEL PERFORATED SHEET: GRADE 304

HOLE (mm)	SPACING (mm)	THICKNESS (mm)	WIDTH (mm)	DIAMETER (mm)
1.60	2.54	0.70	1200	2400
2.01	3.00	0.90	1200	2400
3.25	4.52	0.90	1200	2400
3.25	5.59	1.50	1200	2400
4.80	*	0.90	1200	2400
4.80	*	1.20	1200	2400
4.80	*	1.60	1200	2400
6.35	9.55	1.50	1200	2400
9.53	14.30	1.50	1200	2400
12.70	17.30	1.50	1200	2400
0.50	1.09	0.40	1000	2400
0.80	1.50	0.50	1000	2000
1.00	2.00	0.50	1000	2000
1.00	2.00	1.00	1000	2000
1.50	2.60	1.00	1000	2000
2.00	3.00	1.00	1000	2000
2.00	3.50	1.00	1000	2000
2.00	3.50	1.50	1000	2000
3.00	4.00	1.00	1000	2000
3.00	5.00	1.00	1000	2000
3.00	5.00	1.50	1000	2000
3.00	5.00	2.00	1000	2000
4.00	5.00	1.00	1000	2000
5.00	6.00	1.00	1000	2000
5.00	6.50	1.50	1000	2000
5.00	7.00	1.00	1000	2000
5.00	8.00	1.50	1000	2000
6.00	9.00	1.50	1000	2000
8.00	12.00	1.50	1000	2000
10.00	12.70	1.00	1000	2000
10.00	15.00	1.50	1000	2000
12.00	16.00	1.50	1000	2000
15.00	21.00	1.50	1000	2000

* Variable - contact supplier

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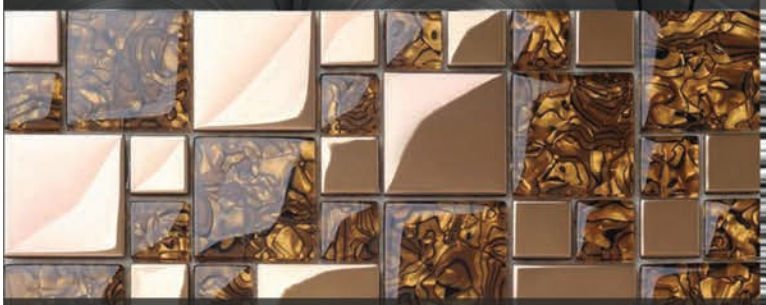

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STAINLESS STEEL PERFORATED SHEET: GRADE 316

HOLE (mm)	CENTRE (mm)	THICKNESS (mm)	WIDTH (mm)	LENGTH DIAMETER (mm)
1.10	2.00	0.80	1000	2000
2.00	3.50	1.00	1000	2000
3.00	4.00	1.00	1000	2000
3.00	5.00	1.00	1000	2000
3.00	5.00	1.50	1000	2000
5.00	7.00	1.00	1000	2000
5.00	8.00	1.50	1000	2000
8.00	11.00	1.50	1000	2000
10.00	15.00	1.50	1000	2000

* Variable - contact supplier

STAINLESS STEEL PLATE

THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	304/304L HRAP	316/316L HRAP	321 HRAP	LEAN DUPLEX HRAP	DUPLEX HRAP	3CR12/5CR12 HRAP	253MA HRAP
5.00	1500	3000	•	•				•	
		6000	•	•	•		•	•	
	2000	6000	•	•	•	•	•	•	
6.00	1500	6000	•	•				•	•
	2000	6000	•	•	•	•	•	•	•
	2500	6000	•	•					
		8000	•	•					
8.00	1500	3000	•	•					
		6000	•	•	•			•	
	2000	6000	•	•	•	•	•	•	•
	2500	6000	•	•					
	3000	7500	•	•					
10.00	1500	3000	•	•					
		6000	•	•	•			•	
	2000	6000	•	•	•	•	•	•	
	2500	7500	•	•				•	
	3000	7500	•	•					
12.00	1500	6000	•	•					
	2000	6000	•	•	•	•	•	•	•
	2500	7500	•	•				•	
	3000	7500	•	•					
13.00	1500	6000	•	•					
	2000	6000	•	•	•			•	
	2500	7500	•	•					
	3000	7500	•	•					

* No. 1 finish (HRAP) is standard. 2B finish may be available in thicknesses up to about 8.00 mm.
NB Sizes also cover the closest imperial measurement. For more information turn to page 5.

d'Al

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STAINLESS STEEL PLATE* (CONTINUED)

THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	304/304L HRAP	316/316L HRAP	321 HRAP	LEAN DUPLEX HRAP	DUPLEX HRAP	3CR12/ 5CR12 HRAP	253MA HRAP
15.00	2000	6000	•						
	2750	5000	•						
16.00	1500	6000	•	•					
	2000	6000	•	•	•	•	•	•	•
	2500	7500	•	•					
	3000	7500	•	•					
19.00	2000	6000	•	•	•			•	•
20.00	1500	6000	•	•				•	
	2000	6000	•	•	•	•	•	•	
	2500	8000	•	•					
25.00	1500	6000	•	•					
	2000	6000	•	•	•		•	•	•
	2500	7500	•	•					
	3000	7500	•	•					
32.00	1500	6000	•	•					
	2000	6000	•	•	•		•		
	2500	8000	•	•					
	3000	6000	•	•					
40.00	2000	6000	•	•	•		•		
50.00	2000	6000	•	•			•		
65.00	3000	4000	•	•					
80.00	3000	3000	•	•					
100.00	2000	3000		•					

* No. 1 finish (HRAP) is standard. 2B finish may be available in thicknesses up to about 8.00 mm.
NB Sizes also cover the closest imperial measurement. For more information turn to page 5.

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- Grade selection
- Surface finishes
- Design
- Fabrication
- Product specifications
- Conversion tables

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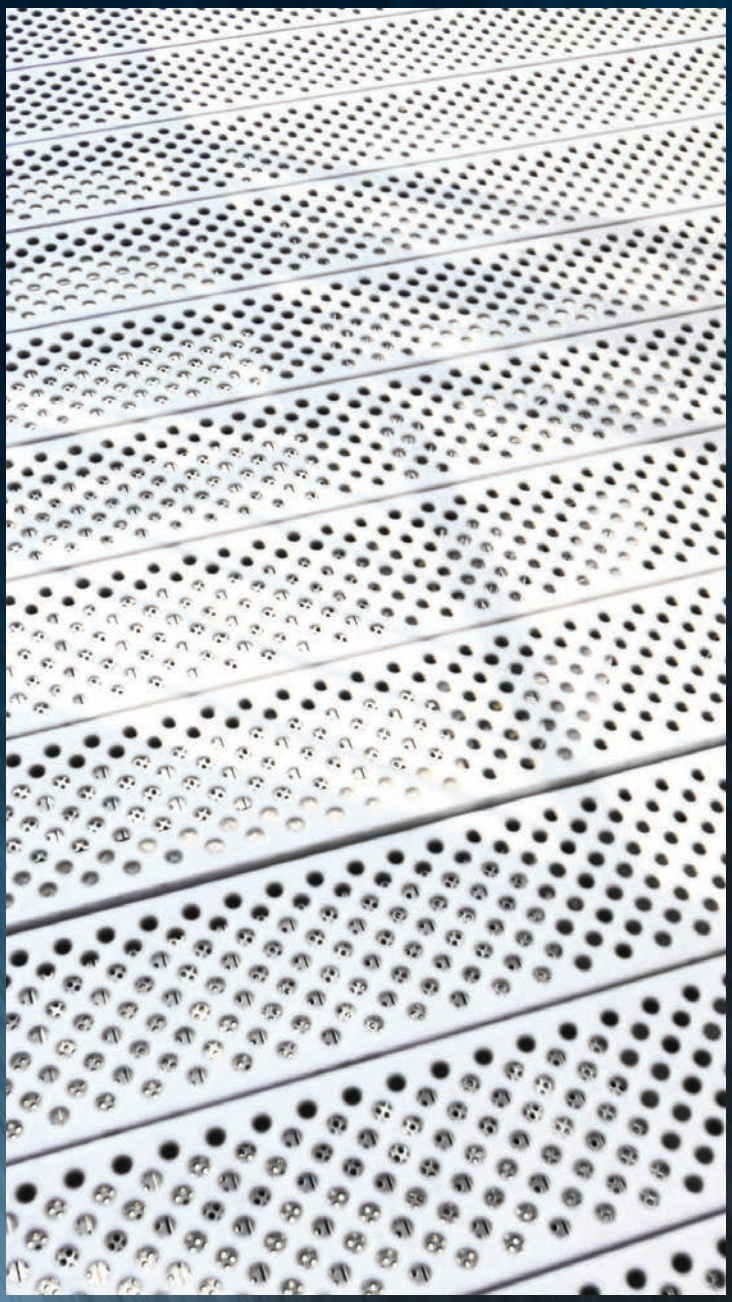
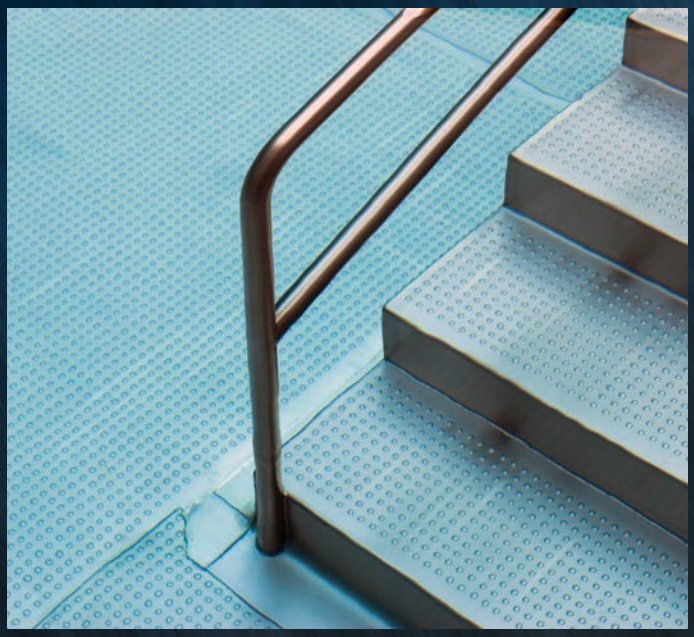
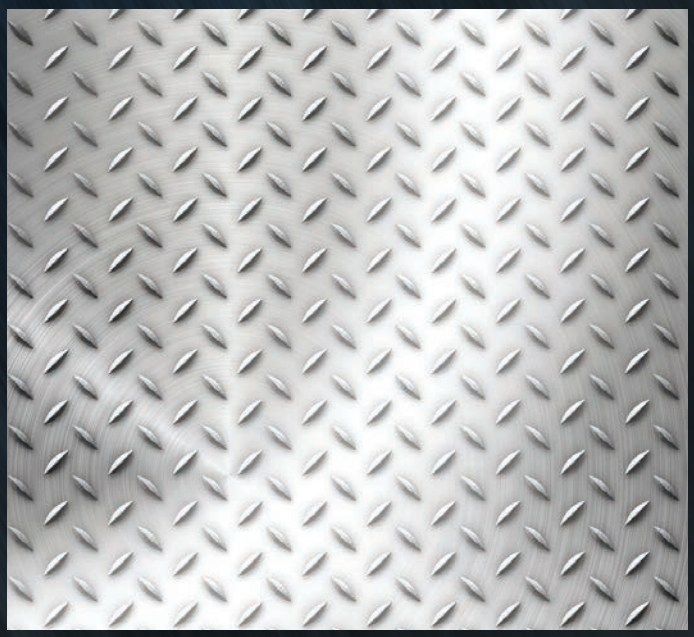
ASSDA
Australian Stainless Steel Development Assoc.

SAFETY FLOORING PRODUCTS







SAFETY FLOORING PRODUCTS

Product Description

Highly effective non-slip plates and sheets, intended for use in industrial, agricultural and some commercial applications. Not intended for high volume public thoroughfares.

Sharp changes in direction give you grip and perforated sheet allows drainage. Drainage is desirable to prevent pooling.

Floor (Checker) Plate in hot rolled or cold pressed with a universal grip design and ridge strength.

Standards

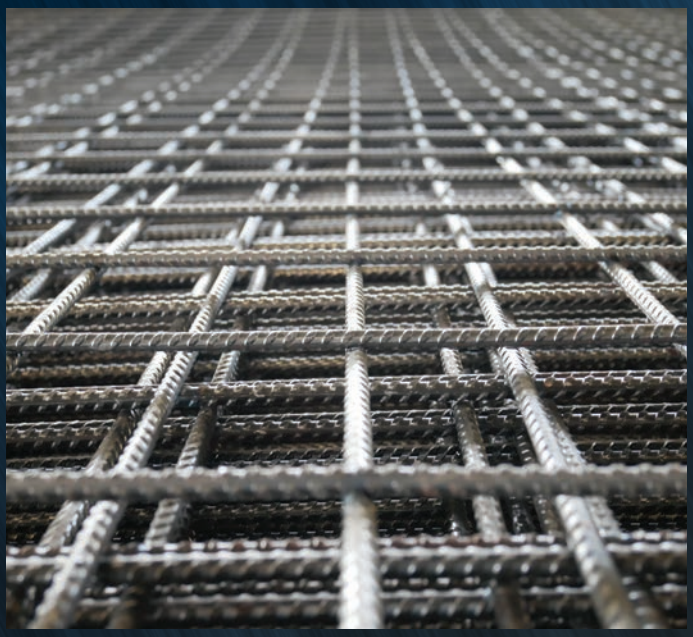
ASTM A480/A480M	General Requirements for Flat Rolled Stainless and Heat Resisting Steel Plate, Sheet and Strip.
ISO 10630	Industrial Plate Screens – Specifications and Test Methods.

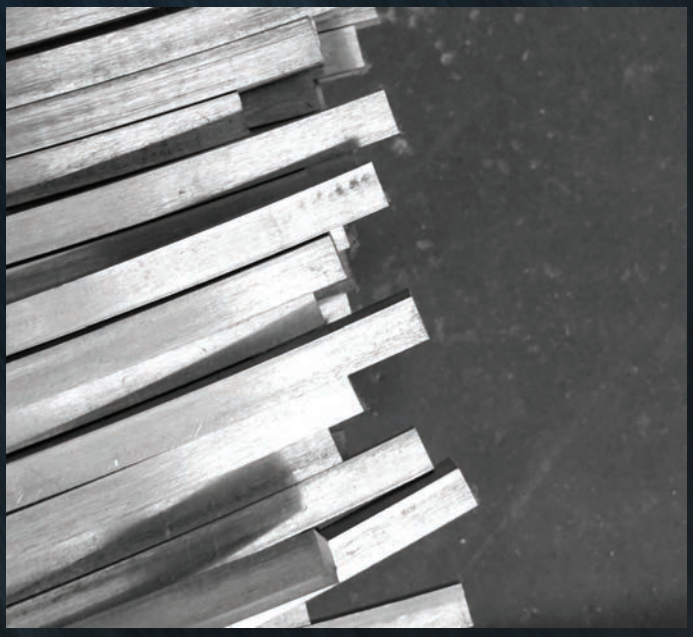
STAINLESS STEEL SAFETY FLOORING

			PRESSED		HOT ROLLED	
THICKNESS (mm)	**WIDTH (mm)**	**LENGTH (mm)**	**304**	**316**	**304**	**316**
2	1219	2438	•			
3	1219	2438	•			
3.18	1219	2438			•	
3.18	1219	3048			•	
3.5	1219	2438	•			
3.5	1500	3000	•			
4.5	1219	2438	•			
4.5	1500	3000	•			
4.5	1524	3048			•	
4.76	1219	2438			•	
4.76	1219	3048			•	
6	1219	2438			•	•
6	1250	2500			•	
6	1250	6000			•	
6	1500	3000			•	•
6	1524	3048			•	•
6.35	1219	2438			•	

Note: Tear configuration and dimensions differ by thickness and mill source. Check with your supplier.

BAR





BAR

Product Description

Stainless steel bar comprises numerous long products referred to by the shape, the section dimension, grade, condition and surface finish. They can be categorised as follows; round (solid and hollow), flat, shaped (hexagonal, square) and structural (channel, angle, reinforcing).

Smaller sizes of round bar (25.4 mm and lower) are generally drawn. Sizes above 25.4 mm and less than 101.6 mm are generally annealed, turned and polished. Sizes above 101.6 mm are generally rough turned to k12 tolerance. Centre-less ground finishing is used for applications requiring superior tolerance and straightness.

Flat bar is stocked in both hot rolled or slit rolled edge finish, with the hot rolled finish arguably producing a superior finish for decorative applications. Structural sections are also typically supplied in hot rolled finish. Should superior finishes be needed, this can be achieved using mechanical or electrochemical polishing processes, available through local service providers.

Reinforcing bar (also commonly referred to as "rebar") is used to strengthen concrete and masonry structures, specifically under tensile loads. Traditionally rebar is used in carbon steel form, however stainless steel reinforcing is growing rapidly particularly in marine environments. Typically supplied in bar form and requiring welding to form mesh panels, it is stocked in 304, 316 and higher strength duplex variants.

Relevant Standards

ASTM A193/A193M	Alloy-Steel and Stainless Steel Bolting Materials for High Temperature Service or High Pressure Service and Other Special Purpose Applications.
ASTM A194/A194M	Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts for High Pressure and High Temperature Service, or Both.
ASTM A276	Stainless Steel Bars and Shapes.
ASTM A314	Stainless Steel Billets and Bards for Forgings.
ASTM A320/A320M	Alloy-Steel and Stainless Steel Bolting for Low-Temperature Service.
ASTM A453/A453M	High-Temperature Bolting, with Expansion Coefficients Comparable to Austenitic Stainless Steels.
ASTM A484/A484M	General Requirements for Stainless Steel Bars, Billets and Forgings.
ASTM A479/A479M	Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels.
ASTM A511/A511M	Seamless Stainless Steel Mechanical Tubing and Hollow Bar.
ASTM A564/A564M	Hot-Rolled and Cold-Finished Age-Hardening Stainless Steel Bars and Shapes.
ASTM A582/A582M	Free Machining Stainless Steel Bars.
ASTM A955/A955M	Deformed and Plain Stainless Steel Bars for Concrete Reinforcement.
BS 6744:2016	Stainless Steel Bars - Reinforcement of Concrete - Requirements and Test Methods.
EN 10088-3	Stainless Steels – Part 3: Technical Delivery Conditions for Semi-Finished Products, Bars, Rods, Wire, Sections and Bright Products of Corrosion Resisting Steels for General Purposes.

STAINLESS STEEL ROUND BAR

DIAMETER (mm)	DIAMETER (inches)	303	304/304L	316/ 316L	431	DUPLEX	SUPER DUPLEX	253 MA
3.18	0.125	•	•	•				
3.97	0.156		•	•				
4.76	0.187	•	•	•				
5.00	0.197	•	•	•				
6.00	0.236	•	•	•				
6.35	0.250	•	•	•				
7.95	0.313	•	•	•				
8.00	0.315	•	•	•				•
9.52	0.375	•	•	•	•			
10.00	0.394	•	•	•		•		•
11.11	0.437	•	•	•				
12.00	0.472	•	•	•		•		•
12.70	0.500	•	•	•	•			
14.00	0.551			•				
14.29	0.563	•	•	•				
15.88	0.625	•	•	•	•			
16.00	0.630	•	•	•		•		•
18.00	0.709			•				
19.05	0.750	•	•	•	•	•		
20.00	0.787	•	•	•		•	•	•
22.00	0.866	•		•				
22.23	0.875	•	•	•	•	•		
24.00	0.945		•	•		•		
25.00	0.984	•	•	•		•	•	•
25.40	1.000	•	•	•	•	•		
28.58	1.125	•	•	•	•	•		
30.00	1.181		•	•		•	•	
31.75	1.250	•	•	•	•	•		
34.93	1.375	•	•	•	•	•		
35.00	1.378		•	•			•	•

Improved machinability (IM) quality is available in most grades of stainless steel.

STAINLESS STEEL ROUND BAR (CONTINUED)

DIAMETER (mm)	DIAMETER (inches)	303	304/ 304L	316/ 316L	431	DUPLEX 2205	SUPER DUPLEX	253 MA
36.00	1.417		•	•		•		
38.10	1.500	•	•	•	•	•		
40.00	1.575	•	•	•	•	•	•	•
41.27	1.625		•	•				
44.45	1.750	•	•	•	•	•		
47.63	1.875			•				
50.00	1.969	•	•	•	•	•	•	•
50.80	2.000	•	•	•	•	•		
53.97	2.125	•	•	•				
57.15	2.250		•	•	•	•		
60.00	2.362			•	•	•	•	
63.50	2.500		•	•	•	•		
65.00	2.559			•		•		
69.85	2.750		•	•	•	•		
70.00	2.756					•	•	•
76.20	3.000	•	•	•	•	•		
80.00	3.150					•	•	•
82.55	3.250		•	•	•	•		
88.90	3.500		•	•	•	•		
90.00	3.543						•	
95.25	3.750			•		•		
100.00	3.937					•	•	
101.60	4.000		•	•	•	•		
110.00	4.330		•	•		•	•	•
114.30	4.500		•	•				
120.00	4.724			•		•	•	
125.00	4.921						•	
127.00	5.000		•	•				
130.00	5.118		•	•		•		
140.00	5.512			•		•		

Improved machinability (IM) quality is available in most grades of stainless steel.

STAINLESS STEEL ROUND BAR (CONTINUED)

DIAMETER (mm)	DIAMETER (inches)	303	304/ 304L	316/ 316L	431	DUPLEX 2205	SUPER DUPLEX	253 MA
150.00	5.905						•	
152.40	6.000		•	•		•		•
160.00	6.299					•		
165.00	6.496			•				
170.00	6.693			•				
180.00	7.087		•	•		•	•	
190.00	7.480			•		•		
200.00	7.874			•		•	•	
203.20	8.000			•		•		
205.00	8.071			•				
210.00	8.267					•		
220.00	8.661						•	
228.60	9.000			•				
230.00	9.055					•		
250.00	9.842						•	
254.00	10.000			•		•		
280.00	11.020			•				
300.00	11.811					•		
304.80	12.000			•				
310.00	12.204					•		
325.00	12.795			•		•		
330.00	12.992			•		•		
340.00	13.385			•				
350.00	13.779					•		
355.60	14.000			•		•		
375.00	14.764			•				
400.00	15.748			•		•		
450.00	17.716			•		•		

Improved machinability (IM) quality is available in most grades of stainless steel.

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STAINLESS STEEL HOLLOW BAR: GRADE 316

OUTSIDE DIAMETER (mm)	INSIDE DIAMETER (mm)	AVERAGE WEIGHT (kg/m)	CHUCKED TRUE TO THE OD MAX OD (mm)	CHUCKED TRUE TO THE OD MAX ID (mm)	CHUCKED TRUE TO THE ID MAX OD (mm)	CHUCKED TRUE TO THE ID MAX ID (mm)
32	20	4.20	31.0	21.9	30.1	21.0
	16	5.07	31.0	18.0	30.0	17.0
36	25	4.55	35.0	26.9	34.1	26.0
	20	5.91	35.0	22.0	34.0	21.0
	16	6.78	35.0	18.1	33.9	17.0
40	28	5.49	39.0	29.9	38.1	29.0
	25	6.47	39.0	27.0	38.0	26.0
	20	7.83	39.0	22.1	37.9	21.0
45	32	6.7	44.0	33.9	43.1	33.0
	28	8.17	44.0	30.0	43.0	29.0
	20	10.5	44.0	22.2	42.8	21.0
50	36	8.01	49.0	38.0	48.0	37.0
	32	9.7	49.0	34.1	47.9	33.0
	25	12.1	49.0	27.2	47.8	26.0
56	40	10.2	55.0	42.0	54.0	41.0
	36	12.1	55.0	38.1	53.9	37.0
	28	15.2	55.0	30.3	53.7	29.0
63	50	9.9	62.0	51.9	61.1	51.0
	40	15.4	62.0	42.2	60.8	41.0
	32	19.0	62.0	34.4	60.6	33.0
71	56	12.9	69.9	58.0	68.9	57.0
	45	19.6	69.9	47.3	68.6	46.0
	36	24.1	69.9	38.5	68.4	37.0
80	63	16.4	78.8	65.0	77.8	64.0
	50	25.3	78.6	52.4	77.4	51.0
	45	28.3	78.8	47.5	77.3	46.0
	40	30.9	78.8	42.6	77.2	41.0
85	45	33.5	83.7	47.6	82.1	46.0
90	71	20.6	88.6	73.1	87.6	72.1
	63	27.1	88.6	65.3	87.3	64.0
	50	36.1	88.6	52.6	87.0	51.0
95	50	42.1	93.5	52.7	91.8	51.0
100	80	24.4	98.5	82.3	97.4	81.2
	71	32.7	98.5	73.4	97.2	72.1
	56	42.3	98.5	58.7	96.8	57.0

STAINLESS STEEL HOLLOW BAR: GRADE 316 (CONTINUED)

OUTSIDE DIAMETER (mm)	INSIDE DIAMETER (mm)	AVERAGE WEIGHT (kg/m)	CHUCKED TRUE TO THE OD MAX OD (mm)	CHUCKED TRUE TO THE OD MAX ID (mm)	CHUCKED TRUE TO THE ID MAX OD (mm)	CHUCKED TRUE TO THE ID MAX ID (mm)
106	80	32.3	104.4	82.5	103.1	81.2
	71	40.6	104.4	73.5	103.0	72.1
	56	52.1	104.4	58.9	102.5	57.0
112	90	30.2	110.3	92.5	109.2	91.4
	80	40.6	110.3	82.6	108.9	81.2
	63	55.3	110.3	65.8	108.5	64.0
118	90	39.0	116.2	92.7	114.9	91.4
	80	49.4	116.2	82.8	114.6	81.2
	63	64.2	116.2	66.0	114.2	64.0
125	100	38.3	123.1	102.7	121.9	101.5
	90	49.8	123.1	92.8	121.7	91.4
	71	68.5	123.1	74.0	121.2	72.1
132	106	42.0	130.0	108.8	128.8	107.6
	90	61.1	130.0	93.0	128.4	91.4
	71	79.7	130.0	74.2	127.9	72.1
140	112	47.8	137.9	115.0	136.6	113.7
	100	63.3	137.9	103.1	136.3	101.5
	80	85.2	137.9	83.3	135.8	81.2
150	125	47.7	147.7	128.1	146.5	126.9
	106	74.2	147.7	109.3	146.0	107.6
	80	101.0	147.7	83.6	145.3	81.2
160	132	56.2	157.6	135.3	156.3	134.0
	112	85.8	157.6	115.5	155.8	113.7
170	140	63.8	167.4	143.5	166.0	142.1
	118	98.4	167.4	121.7	165.5	119.8
180	150	68.4	177.3	153.6	176.0	152.3
	125	110.0	177.3	128.9	175.3	126.9
190	160	73.0	187.1	163.8	185.7	162.4
	132	123.0	187.0	136.0	185.1	134.0
200	160	97.6	197.0	164.0	195.4	162.4
	140	134.0	197.0	144.2	194.9	142.1
212	170	109.0	208.8	174.2	207.2	172.6
	130	182.0	208.6	134.6	206.2	132.0
224	180	121.0	220.6	184.4	218.9	182.7
	140	199.0	220.6	144.8	217.9	142.1
236	190	133.0	232.4	194.6	230.7	192.9
	150	216.0	232.4	155.0	229.7	152.3
250	200	153.0	246.2	204.9	244.3	203.0

STAINLESS STEEL HEXAGONAL BAR

ACROSS FLATS (mm)	ACROSS FLATS (inches)	WEIGHT (kg/m)	304	316
9.53	0.375	0.62		•
13.34	0.525	1.21	•	•
15.27	0.601	1.59	•	•
18.03	0.710	2.21	•	•
19.05	0.750	2.47	•	•
20.83	0.820	2.95	•	•
22.23	0.875	3.36		•
23.37	0.920	3.72	•	
24.00	0.945	3.92	•	
25.65	1.010	4.48	•	•
28.58	1.125	5.56		•
30.48	1.200	6.32	•	•
31.75	1.250	6.86		•
33.05	1.300	7.42		•
34.92	1.374	8.30		•
37.59	1.479	9.59		•
42.42	1.670	12.22		•
47.63	1.875	15.40		•
50.80	2.000	17.52		•
57.15	2.250	22.17		•

STAINLESS STEEL SQUARE BAR

ACROSS FLATS (mm)	ACROSS FLATS (inches)	304	316
5.00	0.197	•	
6.00	0.236		•
6.35	0.250		•
8.00	0.315		•
9.52	0.375		•
10.00	0.394	•	•
12.00	0.472	•	•
12.70	0.500		•
16.00	0.630	•	•
19.05	0.750		•
20.00	0.787	•	•
25.00	0.984	•	•
25.40	1.000		•
31.75	1.250	•	•
32.00	1.260	•	•
35.00	1.378		•
38.00	1.496	•	•
40.00	1.575	•	•
50.00	1.969		

STAINLESS STEEL FLAT BAR

THICKNESS (mm)	WIDTH (mm)	304	316
3.00	12.00	•	•
	20.00	•	•
	25.00	•	•
	30.00	•	•
	40.00	•	•
	50.00	•	•
	75.00	•	•
5.00	20.00	•	•
	25.00	•	•
	30.00	•	•
	40.00	•	•
	50.00	•	•
	65.00	•	•
	75.00	•	•
	100.00	•	•
6.00	12.00	•	•
	20.00	•	•
	25.00	•	•
	30.00	•	•
	40.00	•	•
	50.00	•	•
	65.00	•	•
	75.00	•	•
	100.00	•	•
	150.00	•	•
	200.00	•	•
8.00	25.00	•	•
	30.00	•	•
	40.00	•	•
	50.00	•	•
	65.00	•	•
	75.00	•	•
	100.00	•	•
	150.00	•	•

THICKNESS (mm)	WIDTH (mm)	304	316
10.00	20.00	•	•
	25.00	•	•
	30.00	•	•
	40.00	•	•
	50.00	•	•
	65.00	•	•
	75.00	•	•
	100.00	•	•
	125.00	•	•
	150.00	•	•
	200.00	•	•
	250.00	•	
12.00	25.00	•	•
	30.00	•	•
	40.00	•	•
	50.00	•	•
	65.00	•	•
	75.00	•	•
	100.00	•	•
	125.00	•	•
	150.00	•	•
16.00	40.00	•	•
	50.00	•	•
	75.00	•	•
	100.00	•	•
	150.00	•	•
20.00	40.00	•	•
	50.00	•	•
	65.00	•	
	75.00	•	•
	100.00	•	•
25.00	50.00	•	•
	75.00	•	•
	100.00	•	•

Flat bars are manufactured by either hot rolling (Hot Rolled Annealed Pickled = HRAP) or by cold slitting of coil (Slit Rolled Edge = SRE).

STAINLESS STEEL EQUAL ANGLE BAR

SIZE (mm)	APPROX WEIGHT (kg/m)	304	316
20 x 20 x 3	0.9	•	•
25 x 25 x 3	1.2	•	•
25 x 25 x 5	1.8	•	•
25 x 25 x 6	2.1	•	•
30 x 30 x 3	1.4	•	•
30 x 30 x 4	1.8	•	•
30 x 30 x 5	2.2	•	•
30 x 30 x 6	2.6	•	•
40 x 40 x 3	1.9	•	•
40 x 40 x 4	2.5	•	•
40 x 40 x 5	3.0	•	•
40 x 40 x 6	3.5	•	•
50 x 50 x 3	2.4	•	•
50 x 50 x 5	3.8	•	•
50 x 50 x 6	4.5	•	•
50 x 50 x 10	7.1	•	•
60 x 60 x 6	5.5	•	•
65 x 65 x 6	6.0	•	•
65 x 65 x 8	7.7	•	•
65 x 65 x 10	9.5	•	•
75 x 75 x 6	6.9	•	•
75 x 75 x 8	8.9	•	•
75 x 75 x 10	11.1	•	•
75 x 75 x 12	13.1		•
100 x 100 x 6	9.3	•	•
100 x 100 x 8	12.2	•	•
100 x 100 x 10	15.0	•	•
100 x 100 x 12	17.8		•

STAINLESS STEEL UNEQUAL ANGLE BAR GRADE 316

SIZE (mm)	APPROX WEIGHT (kg/m)
75 x 50 x 6	5.71
100 x 75 x 6	8.10

Unequal angle bar can be made in a wide variety of sizes. Contact supplier for details.

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REVAL® Stainless Rebar

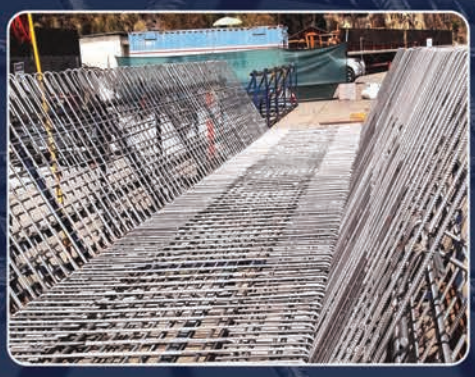
SPECIAL GRADES FOR CONSTRUCTION

The benefits of using Reval in Roads, Bridges and Buildings include:

- Excellent corrosion resistance to chlorides
- More than100 years expected service life in concrete
- Higher strength levels
- Better self-healing when subjected to damage and abrasion compared to galvanized or epoxy coated steel
- Low life cycle cost
- High ductility
- Longer storage and service life
- Better resistance to localized corrosion mechanisms
- Low magnetic permeability
- Better fire and heat resistance compared to black bar
- Resistance to seismic loading
- Easy use with carbon steel by lapping or coupling

STEEL GRADES: 304LN, 316LN, 2205 (318), XM-28, 2304 & Others		
BARS	3-50 mm (0.118" - 2.000)	12 meters max (40 ft)
COILS	3- 20 mm (0.118"- 0.750)	750 Kg - 1500 Kg
MESHES	3- 12 mm (0.118"- 0.500)	Available in different mesh sizes

Reval® is the ideal solution for concrete deterioration problems, providing assurance for the safety of the structure and the quality in design and manufacturing choices.



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Lions Park Industrial Estate
4207 Yatala Queensland
Tel. +61 7 38079733
Fax. +61 7 38079744
E-mail: sales@valbruna.com.au

STAINLESS STEEL CHANNELS: GRADE 316

DIMENSIONS (mm) THICKNESS x FLANGE x WEB [(B) x (H) x (T)]
40 x 20 x 3
50 x 25 x 3
80 x 40 x 5
100 x 50 x 6
130 x 65 x 6
150 x 75 x 6
200 x 100 x 10

STAINLESS STEEL REINFORCING BAR (REBAR)

NOMINAL DIAMETER (mm)	TYPE AND GRADE
6	Stainless steel rebar is available as ribbed (cold ribbed and hot ribbed) and plain round bar, and is stocked across grades 304, 316, 2205 and 2304. Contact your supplier for further information.
8	
10	
12	
16	
20	
25	
28	
32	
40	

WIRE AND WIRE ROPE

WIRE AND WIRE ROPE

Product Description

Stainless steel wire types are available in an almost infinite range of grades, strengths, finishes and conditions for use in diverse applications.

Relevant Standards

ASTM A313/A313M	Stainless Steel Spring Wire
ASTM A493	Stainless Steel Wire and Wire Rods for Cold Heading and Cold Forging
ASTM A555/A555M	General Requirements for Stainless Steel Wire and Wire Rods
ASTM A580/A580M	Stainless Steel Wire (Round and Other Shapes)
ASTM A581/A581M	Free-Machining Stainless Steel Wire and Wire Rods (Round and Other Shapes)
JIS G4309	Stainless Steel Wires
JIS G4314	Stainless Steel Wires for Springs
AWS A5.4	Stainless Steel Electrodes for Shielded Metal Arc Welding
AWS A5.9/A5.9M	Bare Stainless Steel Welding Electrodes and Rods

STAINLESS STEEL GENERAL ENGINEERING WIRE

CONDITION AND FINISH	DESCRIPTION	SIZE RANGE (mm)
ANNEALED AND PICKLED (ANN)	Grey matt finish, annealed and pickled after drawing to size.	3.00 - 16.00
BRIGHT ANNEALED (BA)	Semi-bright finish obtained by strand annealing in a protective environment.	1.00 - 7.00
BRIGHT DRAWN (BD)	Bright finish - wire given a cold draw in oil and cleaned to improve surface lustre.	1.00 - 16.00
COLD DRAWN (CD)	Semi-matt finish - lightly drawn in soap. Can be supplied clean.	1.00 - 16.00
TEMPER DRAWN	Cold drawn in oil (bd) or soap (cd) to produce specific tensile strength.	1.00 - 12.00
SPRING TEMPER (ST)	Cold drawn to spring hard temper. Supplied with lubricant coating to aid spring coiling. Can be supplied cleaned.	1.00 - 16.00
SUPER-COAT (SC)	Semi-bright finish, coated with non-metallic lubricant and lightly drawn in soap or annealed and coated at final size for cold heading.	1.00 - 16.00

Grades: 302HQ, 303, 304, 304L, 316 AND 316L. Other grades on request.

Diameter range: Drawn wire (CD,BD) 1.00 to 16.00 mm
Bright annealed (BA) 1.00 to 6.00 mm
Annealed and pickled (ANN) 3.00 to 16.00 mm
Other sizes on request.

Coatings: Super coat / Spring coat: Water soluble coatings applied by dipping and baking to act as a lubricant carrier in subsequent forming. Wire can be drawn in soap to provide an additional stearate lubricant coating.

Lime: A thin uniform coating of lime applied by dipping and baking.

Soap-coated: CD wire is usually supplied with drawing soap left on to facilitate subsequent forming.

Oiled: BD wire can be supplied with the drawing oil left on to assist subsequent fabrication.

WIRE ROPE

	CONSTRUCTION A x B ^	INDIVIDUAL WIRE DIAMETER (mm)	GRADE AND SURFACE					
			304		316			2205
			BARE	PVC COATED	BARE	PVC COATED	COMPACTED STRAND	BARE
RIGID	1 x 7	1.6	•				•	
		2.0					•	
		2.5					•	
		3.0					•	
		3.2	•				•	
		3.5					•	
		4.0					•	
	1 x 19	1.0			•			
		1.2			•			
		1.5			•			
		1.6			•			
		2.0	•		•			
		2.4			•			
		2.5			•			•
		3.0			•			•
		3.2		•	•	•		•
		3.5			•			
		4.0		•	•	•		
		4.8			•	•		
		5.0			•		•	
		5.5			•			
		6.0			•	•	•	
		6.4			•			
		7.0			•		•	
		7.2			•			
		8.0			•	•	•	
		9.0			•		•	
		9.5			•			
		10.0			•	•	•	
		11.0	•		•		•	
		12.0			•	•	•	
		12.7			•			
		14.0			•			
		16.0			•			
		19.0			•			
		20.0			•			
		22.0			•			
	1 x 25	14.0					•	
		16.0					•	
		19.0					•	

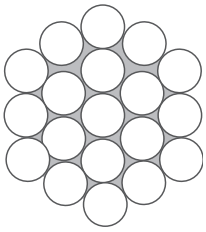
WIRE ROPE (CONTINUED)

	CONSTRUCTION A x B ^	INDIVIDUAL WIRE DIAMETER (mm)	GRADE AND SURFACE					
			304		316			2205
			BARE	PVC COATED	BARE	PVC COATED	COMPACTED STRAND	BARE
RIGID	1 x 37	14.0			•			
		16.0			•			
		19.0			•			
		24.0			•			
		26.0			•			
		28.0			•			
	1 x 61	30.0			•			
		34.0			•			
		36.0			•			
		42.0			•			
FLEXIBLE	7 x 7	1.2	•	•	•			
		1.6	•		•			
		2.0		•	•			
		2.4		•	•			
		3.0			•			
		3.2		•	•	•		
		4.0			•	•		
		4.8			•	•		
		5.0			•			
		6.0	•	•	•	•		•
		6.4			•	•		
		7.0			•			
		8.0			•			
	7 x 19	1.6			•	•		
		2.0			•			
		2.4			•			
		2.5			•			
		3.0			•			
		3.2	•		•	•		
		3.5			•			
		4.0	•		•	•		•
		4.8	•		•			
		5.0			•			
		5.5			•	•		
		6.0			•			•
		6.4			•	•		
		7.0			•			
		7.2			•			
		8.0			•	•		
		9.0			•			
		9.5			•			
		10.0			•			
		12.0			•			•
		12.7			•			
		14.0			•			

WIRE ROPE (CONTINUED)

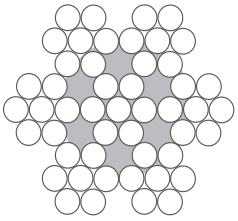
	CONSTRUCTION A x B ^	INDIVIDUAL WIRE DIAMETER (mm)	GRADE AND SURFACE					
			304		316			2205
			BARE	PVC COATED	BARE	PVC COATED	COMPACTED STRAND	BARE
FLEXIBLE	7 x 9	16.0			•			
		19.0			•			
		20.00			•			

^ Construction configuration A x B
Where A = number of strands
And B = number of individual wires within a single strand



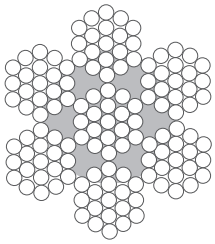
1 x 19

1 strand consisting of 19 individual wires



7 x 7

7 strands, each consisting of 7 individual wires



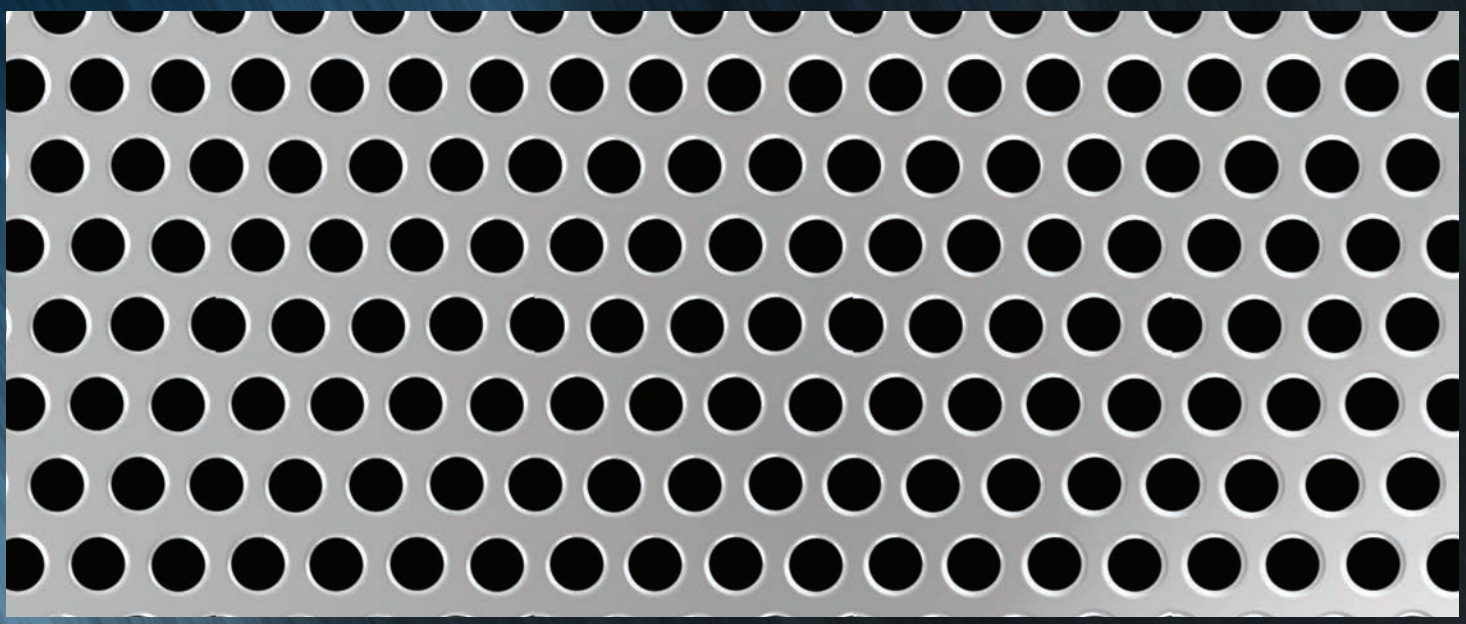
7 x 19

7 strands, each consisting of 19 individual wires

WIRE ROPE FITTINGS

Wire rope is available in multiple configurations (number of wire and strands) and is generally produced locally from stocked feed wire. The range of fittings typically available include turnbuckles, rigging screws, toggles and studs, and hundreds of others are available in metric and imperial sizes. Industries where these fittings are used typically include marine or yacht rigging, balustrading or metal fabrications, industrial or agricultural. Large ranges are stocked in Australia, and bespoke items and custom size can also be quickly machined from locally available bar stocks. Please contact your local supplier for further information.

MESH



MESH

Product Description

Mesh generally comes in two forms, woven and welded.

Woven mesh is produced and stocked in a variety of weave forms, including plain, twilled, lock-crimped, inter-crimped and hollander type.

Applications include architectural, food contact, filtration, bushfire safety, as well as generally applications such as animal/insect control.

Mesh is generally supplied at specific widths, with more flexibility in length than rolls.

Welded mesh is available in both panel and roll form, again across specific widths with flexibility in lengths as rolls. Panels are typically 2400 mm in length.

Architectural wire mesh is a lightweight material with relatively strong tensile strength. Wire rope panels are made-to-order from local stock and attached to a frame by lacing an identical diameter wire between the panel and the framework.

Available in multiple variations, wire rope mesh is specified or identified by using several key points: Woven or ferruled type, aperture/diamond size, and wire rope size. It is primarily used as balustrade infill panels, fall protection screens or as greenwall panels. Wire rope mesh has a multitude of uses.

SWG refers to British Standard Wire Gauge.

Relevant Standards

ASTM A580/580M	Stainless Steel Wire
ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM E2016	Industrial Woven Wire Cloth
AS 2331.3.1	Methods of Test for Metallic and Related Coatings – Corrosion and Related Property Tests – Neutral Salt Spray (NSS) Test
AS/NZS 4389	Roof Safety Mesh
AS 5041	Methods of Test – Security Screen Doors and Window Grilles
ISO 21207	Corrosion Tests in Artificial Atmospheres – Accelerated Corrosion Tests Involving Alternate Exposure to Corrosion-Promoting Gases, Neutral Salt-Spray and Drying

WOVEN

PLAIN WEAVE

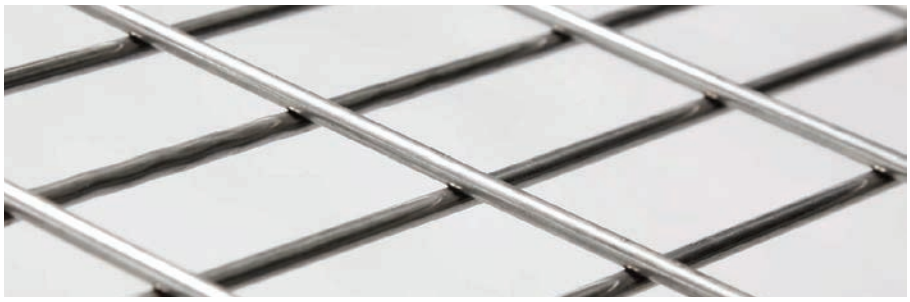
GRADE	304		316	
WIDTH (mm)	APERTURE (mm)	SWG	APERTURE (mm)	SWG
915	1.64	20	1.67	26
	1.67	26		
1220	2.09	26	0.026	50
			0.034	49
			0.043	48.5
			0.045	48
			0.077	47
			0.091	47
			0.104	45.5
			0.132	44
1245	0.547	30	0.154	42
	0.567	32	0.193	39
	0.758	30	0.223	39
	0.820	26	0.25	37
	0.920	28	0.318	36.5
	1.03	24	0.415	34
	1.14	26	0.547	30
	1.24	28	0.820	26
	1.25	24	0.920	28
	1.41	22	1.03	24
	1.56	24	1.58	16
	1.64	20	1.64	20
	1.67	26	1.67	26
	1.975	18	1.98	24
	1.98	24	2.63	16
	2.09	26	3.03	18
	2.28	20	4.75	16
	3.03	18	6.87	16
	3.33	20	10.2	12
	3.48	16	10.7	14
	5.15	18	11.1	16
	6.47	14	12.88	10
	6.87	16	16.5	12
	10.70	14	22.25	10
	11.1	16		
	22.25	10		
1550	0.547	30	0.077	47
	0.608	26	0.104	45.5
	0.71	24	0.132	44
	0.758	30	0.154	42
	0.820	26	0.193	39
	1.03	24	0.223	38
	1.14	26	0.25	37
	1.24	28	0.318	36.5
	1.25	24	0.415	34
	1.41	22	1.03	24
	1.56	24	1.31	19
	1.64	20	1.64	20
	1.67	26	1.67	26
	1.92	20	1.98	24
	1.975	18		
	1.98	24		
	2.28	20		
	2.47	22		

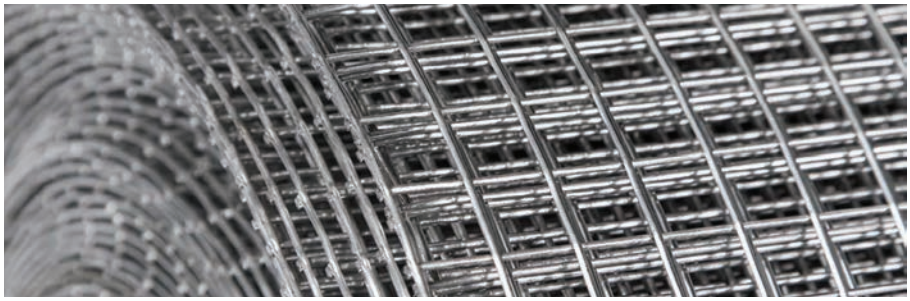
PLAIN WEAVE (CONTINUED)

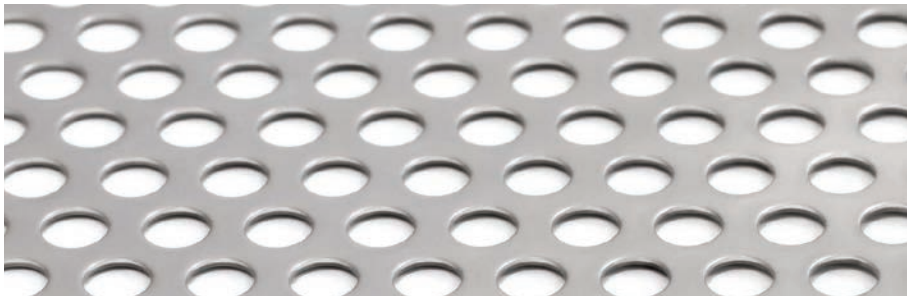
GRADE	304		316	
WIDTH (mm)	**APERTURE (mm)**	**SWG**	**APERTURE (mm)**	**SWG**
	2.62	24		
	3.33	20		
	3.48	16		
	3.88	18		
	4.18	20		
	4.75	16		
	5.15	18		
	6.47	14		
	6.87	16		
	10.7	14		
1830			1.67	26
			22.25	10

stainless steel
WIRE & MESH

- WOVEN MESH
- WELDED ROLLS & PANELS
- COIL WIRE
- PERFORATED SHEETS







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TWILLED WEAVE

GRADE	304		316	
WIDTH (mm)	APERTURE (mm)	SWG	APERTURE (mm)	SWG
1220			0.026	50
			0.034	49
			0.043	48.5
			0.045	48
			0.062	48

LOCKCRIMP WEAVE

GRADE	304		316	
WIDTH (mm)	APERTURE (mm)	SWG	APERTURE (mm)	SWG
1245	6.47	14	10.2	12
			12.88	10
1550	6.47	14		

INTERCRIMP WEAVE

GRADE	304		316	
WIDTH (mm)	APERTURE (mm)	SWG	APERTURE (mm)	SWG
1245	10.7	14	10.7	14
	11.1	16	11.1	16
	22.25	10	16.5	12
			22.25	10
1550	10.7	14		
1830			22.25	10

HOLLANDER WEAVE

GRADE	304		316	
WIDTH (mm)	NOMINAL FILTER RATING	ABSOLUTE FILTER RATING	NOMINAL FILTER RATING	ABSOLUTE FILTER RATING
1220	25	38	5	14
	40	63	10	18
	55	75	15	26
	65	105	25	38
	80	125	35	45
	100	120		
	150	240		
	200	290		
1270			80	125
1370			80	125
1550			80	125

WEAVE MESH FOR RADIANT HEAT AND EMBER PROTECTION

GRADE	304		316	
WIDTH (mm)	APERTURE (mm)	SWG	APERTURE (mm)	SWG
1245	1.4	22	1.6	25
	1.6	20		
	1.74	21		
	1.9	23		
1550	1.9	20	1.4	25

WEAVE MESH FOR FOOD CONTACT APPLICATIONS

GRADE	304			
WIDTH (mm)	APERTURE (mm)	WIRE DIAMETER (mm)	OPEN AREA (%)	WEIGHT (kg per m)
1580	0.106	0.050	36	0.32
	0.125	0.056	48	0.40
	0.132	0.065	49	0.45
	0.14	0.067	46	0.48
	0.16	0.075	46	0.55
	0.18	0.09	45	0.61
	0.212	0.09	49	0.42
	0.224	0.100	49	0.62
	0.236	0.100	51	0.59
	0.245	0.065	62	0.43
	0.25	0.100	53	0.57
	0.265	0.100	52.8	0.52
	0.28	0.112	51	0.53
	0.30	0.112	53	0.62
	0.315	0.112	54	0.59
	0.335	0.14	49.7	0.50
	0.355	0.14	51	0.80
	0.375	0.14	53	0.74
	0.40	0.14	54	0.73
	0.425	0.14	56	0.73
	0.45	0.14	57	0.67
	0.475	0.16	56	0.65
	0.50	0.16	57	0.67
	0.53	0.16	59	0.78
	0.56	0.16	60	0.75
	0.6	0.16	62	0.81
	0.63	0.16	64	0.48
	0.67	0.16	65	0.48
	0.71	0.18	64	0.60
	0.75	0.18	65	0.72
	0.8	0.20	64	0.82
1580	0.8	0.25	58	0.90
	0.85	0.20	65	0.76
	0.85	0.224	63	0.68
	0.9	0.20	67	0.72
	0.9	0.315	55	0.81
	0.95	0.20	68.2	0.70
	0.95	0.315	56	0.79
	1.0	0.22	67	0.72
	1.0	0.315	58	0.81
	1.06	0.22	68.6	0.79
	1.12	0.22	69.4	0.73
	1.12	0.315	61	0.82
	1.18	0.22	71	0.70
	1.18	0.40	56	0.80
	1.25	0.22	72	0.65
	1.25	0.40	57	0.81
	1.4	0.22	74.5	0.61
	1.4	0.45	57	0.91
	1.6	0.22	77	0.52
	1.6	0.50	58	0.75
	1.8	0.32	72	1.45
	1.8	0.56	58	1.7
	2.0	0.32	74	1.32
	2.0	0.50	64	1.42

WELDED

PANELS

APERATURE (mm)	WIRE DIAMETER (mm)	GRADE 304	GRADE 316
25 x 25	2.50	•	•
25 x 25	3.00	•	•
25 x 50	3.00		•
40 x 40	3.00	•	•
40 x 40	4.00		•
50 x 50	3.00	•	•
50 x 50	4.00	•	•
50 x 50	5.00	•	•
50 x 75	5.00	•	•
75 x 13	4.00		•
100 x 100	3.00	•	•
100 x 100	5.00	•	•
100 x 100	6.00	•	•
100 x 100	8.00		•
150 x 150	6.00		•
200 x 200	6.00		•

*Please note all welded panels are 1200 mm x 2400 mm

ROLLS

APERATURE (mm)	WIRE DIAMETER (mm)	WIDTH (mm)	GRADE 304	GRADE 316
6.35 x 6.35	0.63	190.5		•
6.35 x 6.35	0.63	915	•	•
6.35 x 6.35	0.63	1220		•
6.35 x 6.35	0.80	1220	•	•
9.50 x 9.50	0.80	1220		•
9.50 x 9.50	1.00	1220	•	•
9.50 x 9.50	1.00	1520	•	•
11.0 x 11.0	0.80	1220	•	•
12.7 x 12.7	1.20	915	•	•
12.7 x 12.7	1.00	1220	•	•
12.7 x 12.7	1.20	915	•	•
12.7 x 12.7	1.20	1220	•	•
12.7 x 12.7	1.20	1525	•	•
12.7 x 12.7	1.60	915	•	
12.7 x 12.7	1.20	1830	•	
12.7 x 12.7	1.60	915	•	
12.7 x 12.7	1.60	1220	•	•
19.05 x 19.05	1.60	1220		•
19.05 x 19.05	2.00	1220		•
25.4 x 25.4	1.00	1220		•
25.4 x 25.4	1.20	915		•
25.4 x 25.4	1.20	1220		•
25.4 x 25.4	1.20	1525		•
25.4 x 25.4	1.60	1220		•
25.4 x 25.4	2.00	1220	•	•
38.1 x 38.1	2.00	1220		•
50.8 x 50.8	2.00	1220		•

*Please note: stocked in 30 m rolls

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GRADE	316	
WIDTH (mm)	**APERTURE (mm)**	**SWG**
1220	0.075	43
	0.67	38
1530	0.075	43
	0.24	43
	0.32	41
	0.39	39
1580	0.105	47
	0.13	46
	0.15	45
	0.22	43
	0.25	43
	0.265	43
	0.28	42
	0.31	41
	0.44	39
	0.5	38
	0.54	38
	0.58	38
	0.85	34
	0.95	36
	1.4	34
2000	0.13	46

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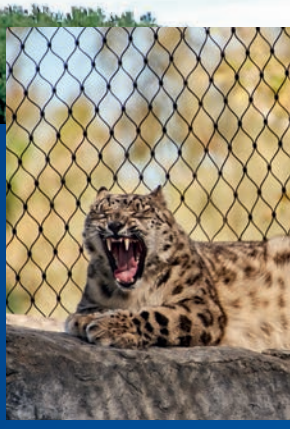

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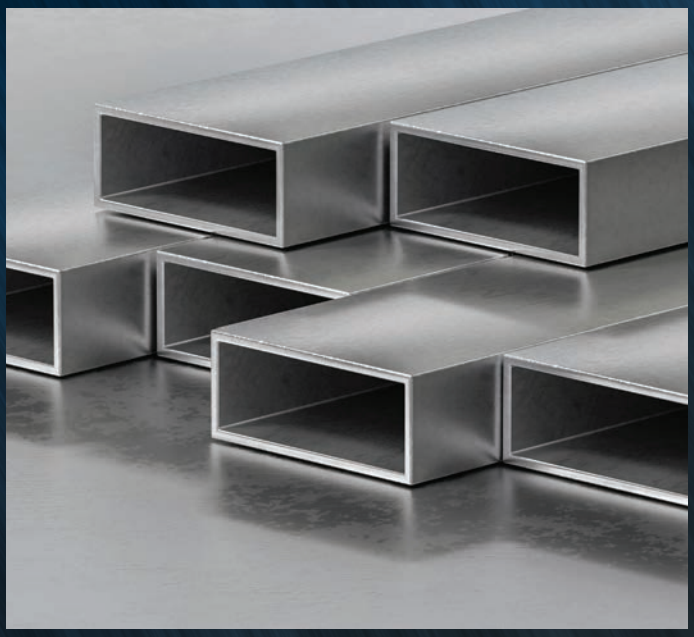
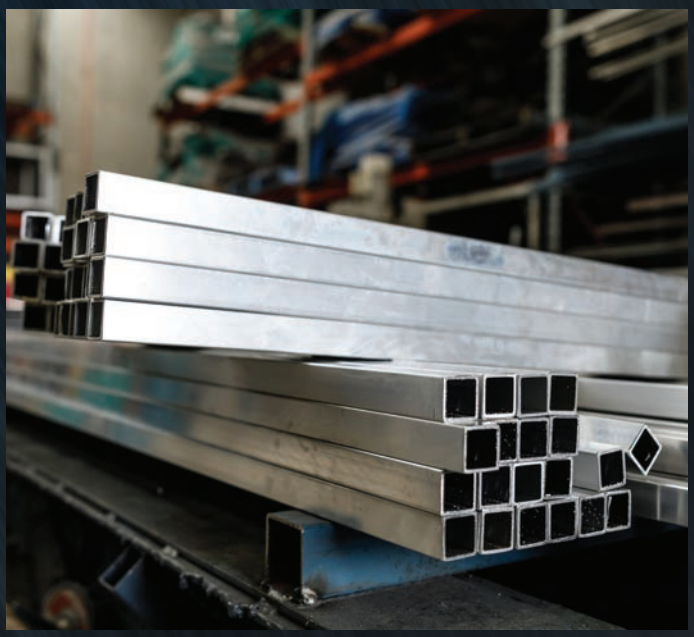
ARCHITECTURAL CABLE MESH: GRADE 316

	WIRE DIAMETER (mm)				
APERATURE (mm)	**1.0**	**1.5**	**2.0**	**3.0**	**4.0**
25 x 40	•	•			
30 x 50	•	•			
35 x 60	•	•	•		
40 x 70	•	•	•		
50 x 88	•	•	•	•	•
60 x 405	•	•	•	•	•
70 x 120	•	•	•	•	•
80 x 140	•	•	•	•	•
100 x 175	•	•	•	•	•
120 x 210	•	•	•	•	•
160 x 275	•	•	•	•	•
180 x 310	•	•	•	•	•
200 x 345	•	•	•	•	•

PIPE AND TUBE





PIPE AND TUBE

Product Description

Pipe is defined by nominal size and schedule. Welded pipe to ASTM A312/A312M (usually stocked) is manufactured from strip and longitudinally welded without the addition of filler metal. Seamless pipe is produced from hollow billets drawn to the desired length. Surface finish is generally considered to be "mill finish".

Tube is defined by an outside dimension (OD) and wall thickness. It is manufactured in round, square or rectangular sections. Tube is generally stocked in seam welded form, however round tube is also available in seamless form. "Mirror" polished tube is stocked however surface finish can vary across suppliers.

Hygienic applications requiring tube (and fittings) conforming to AS 1528 are readily stocked by multiple distributors.

Relevant Standards

ASTM A213/A213M	Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes
ASTM A249/A249M	Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes
ASTM A268/A268M	Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service
ASTM A269/A269M	Seamless and Welded Austenitic Stainless Steel Tubing for General Service
ASTM A270/A270M	Seamless and Welded Austenitic and Ferritic/Austenitic Stainless Steel Sanitary Tubing
ASTM A312/A312M	Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes
ASTM A358/A358M	Electric-Fusion-Welded Austenitic Chromium-Nickel Stainless Steel Pipe for High-Temperature Service and General Applications
ASTM A409/A409M	Welded Large Diameter Austenitic Steel Pipe for Corrosive or High-Temperature Service
ASTM A450/A450M	General Requirements for Carbon and Low Alloy Steel Tubes
ASTM A451/A451M	Centrifugally Cast Austenitic Steel Pipe for High-Temperature Service
ASTM A511/A511M	Seamless Stainless Steel Mechanical Tubing and Hollow Bar
ASTM A530/A530M	General Requirements for Specialized Carbon and Alloy Steel Pipe
ASTM A554	Welded Stainless Steel Mechanical Tubing
ASTM A632	Seamless and Welded Austenitic Stainless Steel Tubing (Small-Diameter) for General Service
ASTM A778/A778M	Welded, Unannealed Austenitic Stainless Steel Tubular Products
ASTM A789/A789M	Seamless and Welded Ferritic/Austenitic Stainless Steel Tubing for General Service
ASTM A790/A790M	Seamless and Welded Ferritic/Austenitic Stainless Steel Pipe
ASTM A872/A872M	Centrifugally Cast Ferritic/Austenitic Stainless Steel Pipe for Corrosive Environments
ASTM A928/A928M	Ferritic/Austenitic (Duplex) Stainless Steel Pipe Electric Fusion Welded with Addition of Filler Metal
ASTM A999/A999M	General Requirements for Alloy and Stainless Steel Pipe
ASTM A1016/A1016M	General Requirements for Ferritic Alloy Steel, Austenitic Alloy Steel, and Stainless Steel Tubes
AS 1528.1	Stainless Steel Tube and Tubes Fittings for Food Processing and Hygienic Applications – Part 1, Tubes
AS 1769	Welded Stainless Steel Tubes for Plumbing Standards
AS 4041	Pressure Piping
AS 4254	Ductwork for Air-Handling Systems in Buildings
AS 5200.053	Plumbing and Drainage Products, Part 053: Stainless Steel Pipes and Tubes for Pressure Applications
ASME B31	Series of codes covering piping codes for various applications
ASME B31.1	Code for Power Piping

Relevant Standards (Continued)

ASME B31.3	Code for Process Piping
ASME B31.4	Code for Pipeline Transportation Systems for Liquids and Slurries
ASME B31.5	Code for Refrigeration Piping and Heat Transfer Components
ASME B31.8	Code for Gas Transmission and Distribution Piping Systems
ASME B31.9	Code for Building Services Piping
ASME B36.10M	Dimensional Standard for Welded and Seamless Wrought Steel Pipe
ASME B36.19M	Dimensional Standard for Stainless Steel Pipe

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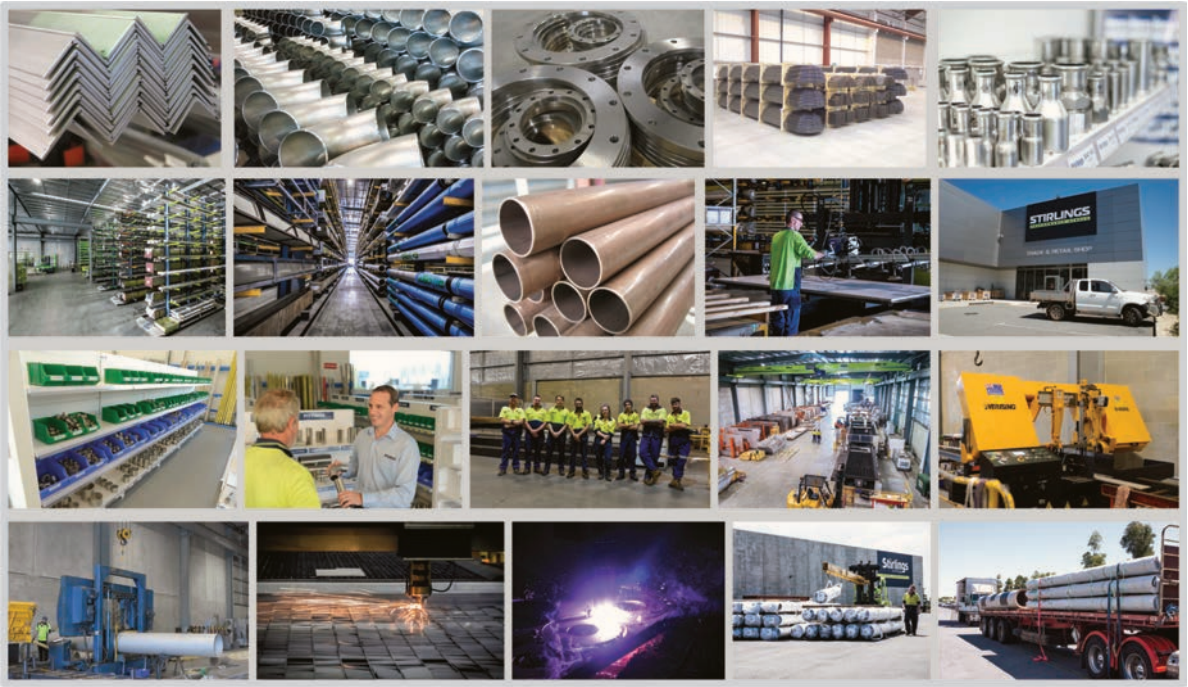

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STAINLESS STEEL PIPE

DN	NPS	OD (mm)	SCH	WT (mm)	304H SMLS	304/ 304L SMLS	304L WLD	310S/ 310H SMLS	321/ 321H SMLS	316/ 316L SMLS	316L WLD	904L	DUPLEX WLD	DUPLEX SMLS	SUPER DUPLEX WLD	SUPER DUPLEX SMLS
6	1/8	10.3	10S	1.24						•	•					
			40S	1.73						•	•					
			80S	2.41						•	•					
8	1/4	13.7	10S	1.65						•						
			40S	2.24						•	•					
			80S	3.02						•						
10	3/8	17.1	10S	1.65						•						
			40S	2.31						•	•					
			80S	3.20						•						
15	1/2	21.3	10S	2.11		•	•			•	•			•		•
			40S	2.77	•	•	•	•	•	•	•	•		•		•
			80S	3.73	•	•		•	•	•	•	•		•		•
			100S	4.75		•				•				•		•
			XXS	7.47		•				•				•		•
20	3/4	26.7	10S	2.11		•	•			•	•			•		•
			40S	2.87	•	•	•	•	•	•	•	•		•		•
			80S	3.91	•	•		•	•	•		•		•		•
			160S	5.54	•	•		•	•	•		•		•		•
			XXS	7.82						•						•
25	1	33.4	10S	2.77		•	•			•	•	•		•		•
			40S	3.38	•	•	•	•	•	•	•	•		•		•
			80S	4.55	•	•		•	•	•		•		•		•
			160S	6.35	•	•				•				•		•
			XXS	9.09						•				•		•
32	1 1/4	42.2	10S	2.77		•	•			•	•			•		
			40S	3.56		•	•			•	•			•		
			80S	4.85		•				•	•			•		
			160S	6.35						•						
40	1 1/2	48.3	10S	2.77		•	•			•	•			•		•
			40S	3.68	•	•	•	•	•	•	•	•		•		•
			80S	5.08	•	•		•	•	•		•		•		•
			160S	7.14	•	•				•				•		•
			XXS	10.16						•				•		•
50	2	60.3	10S	2.77		•	•			•	•	•		•		•
			40S	3.91	•	•	•	•	•	•	•	•		•		•
			80S	5.54	•	•		•	•	•		•		•		•
			160S	8.71	•	•				•				•		•
			XXS	11.07						•				•		•
65	2 1/2	73.0	10S	3.05		•	•			•	•			•		
			40S	5.16	•	•	•	•	•	•	•			•		
			80S	7.01	•	•		•	•	•				•		
			160S	9.53	•	•				•						
80	3	88.9	10S	3.05		•	•			•	•	•		•		•
			40S	5.49	•	•	•	•	•	•	•	•		•		•
			80S	7.62	•	•		•	•	•				•		•
			160S	11.13	•	•				•				•		•
			XXS	15.24						•				•		•

STAINLESS STEEL PIPE (CONTINUED)

DN	NPS	OD (mm)	SCH	WT (mm)	304H SMLS	304/ 304L SMLS	304L WLD	310S/ 310H SMLS	321/ 321H SMLS	316/ 316L SMLS	316L WLD	904L	DUPLEX WLD	DUPLEX SMLS	SUPER DUPLEX WLD	SUPER DUPLEX SMLS
90	3 1/2	101.6	10S	3.05			•			•	•					
			40S	5.74			•			•	•					
			80S	8.08						•						
100	4	114.3	10S	3.05		•	•			•	•	•		•		•
			40S	6.02	•	•	•	•	•	•	•	•		•		•
			80S	8.56	•	•		•	•	•	•			•		•
			120S	11.13										•		
			160S	13.49	•	•				•				•		•
			XXS	17.12						•				•		•
125	5	141.3	10S	3.40			•				•					
			40S	6.55		•	•		•	•	•					
			80S	9.53		•	•		•							
150	6	168.3	10S	3.40		•	•			•	•			•	•	•
			40S	7.11	•	•	•	•	•	•	•			•	•	•
			80S	10.97	•	•	•	•	•					•		•
			120S	14.27			•							•		
			160S	18.24			•							•		•
			XXS	21.95			•							•		•
200	8	219.1	10S	3.76		•	•			•	•		•		•	
			40S	8.18			•	•	•	•	•			•		•
			80S	12.70		•			•	•				•		•
			100S	15.06										•		
			120S	18.24										•		
			140S	20.62										•		
			160S	23.01										•		
250	10	273.1	10S	4.19		•	•			•	•		•		•	
			40S	9.27		•	•			•	•		•		•	
			80S	12.70			•			•	•					
			120S	21.41									•			
			140S	25.40									•			
			160S	28.58									•			
300	12	323.9	10S	4.57			•			•	•		•			•
			40S	9.53			•			•	•		•			•
			80S	12.70						•			•			
350	14	355.6	10S	4.78			•				•		•			
			40S	9.53			•				•		•			
			80S	12.70							•					
400	16	406.4	10S	4.78			•				•		•			
			40S	9.53		•	•				•		•			
			80S	12.70							•					
450	18	457	10S	4.78			•				•		•			
			40S	9.53							•		•			
			80S	12.70							•					
500	20	508	10S	5.54			•				•		•			
			40S	9.53							•		•			
			80S	12.70							•					
600	24	609.6	10S	6.35			•				•		•			
			40S	9.35							•		•			
			80S	12.70							•					
750	30	762.0	10S	7.92							•					

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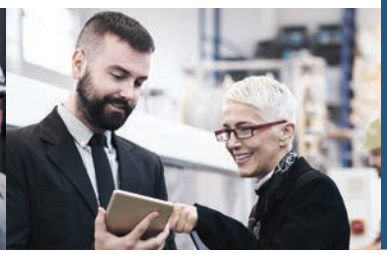

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STAINLESS STEEL ROUND TUBE

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	304 AW	304 AW POL	304 AWA	304 AWA POL	304 AS 1528	304 SMLS	316 AW	316 AW POL	316 AWA	316 AWA POL	316 AS 1528	316 AWA CW	316 SMLS	316 MIRROR POL	321 SMLS	409 AW
3.18	0.41									•							
	0.70													•			
	0.79																
4.76	0.50	•		•													
	0.90													•			
6.35	0.50	•		•													
	0.70			•												•	
	0.90					•						•		•		•	
	1.20						•							•			
7.94	0.50			•													
	0.90					•						•		•			
	1.20					•						•		•			
9.53	0.50	•		•													
	0.90					•						•		•		•	
	1.20	•	•	•		•	•	•		•		•		•		•	
	1.60	•		•				•		•				•		•	
11.11	1.20	•		•													
12.70	0.50	•		•													
	0.70	•	•	•										•			
	0.90					•	•					•		•		•	
	1.20	•	•	•		•	•	•	•	•	•	•		•		•	
	1.60	•	•	•	•	•	•	•	•	•	•	•		•		•	
	2.00													•		•	
	2.11													•			
	2.60													•			
15.88	0.50		•														
	0.70	•	•														
	0.90					•						•					
	1.20	•	•	•		•		•		•		•		•			
	1.60	•	•			•		•		•	•	•		•		•	
19.05	0.50	•															
	0.70	•						•									
	0.90					•						•		•			
	1.20	•	•	•	•	•	•	•	•	•	•	•		•	•		
	1.60	•	•	•	•	•	•	•	•	•	•	•		•	•	•	
	2.00			•										•			
	2.11													•			
	2.64													•			
	3.25													•			
22.20	0.90					•						•					
	1.20	•	•	•	•	•		•	•	•	•	•			•		
	1.60	•	•	•	•	•		•	•	•	•	•		•	•	•	
25.40	0.90					•						•					
	1.20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	1.60	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
	2.00	•		•		•						•		•			
	2.11													•			

Please see end of table (page 64) for notes on seamless tube, food tube and ferritic tube.

STAINLESS STEEL ROUND TUBE (CONTINUED)

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	304 AW	304 AW POL	304 AWA	304 AWA POL	304 AS 1528	304 SMLS	316 AW	316 AW POL	316 AWA	316 AWA POL	316 AS 1528	316 AWA CW	316 SMLS	316 MIRROR POL	321 SMLS	409 AW
	2.64													•			
	3.20													•			
	3.25													•			
28.58	0.90					•						•					
	1.20		•			•			•			•					
	1.60		•			•			•			•					
	2.00					•						•					
31.75	0.90					•						•					
	1.20	•	•	•		•				•	•	•					
	1.60	•	•	•	•	•		•	•	•	•	•		•	•		
	2.00	•				•						•					
	3.20													•			
34.93	0.90					•						•					
	1.20					•						•					
	1.60					•						•					
	2.00					•						•					
38.10	0.70	•		•										•			
	1.20	•	•	•	•	•		•		•	•	•	•	•			
	1.50																•
	1.60	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	2.00	•		•		•						•		•			
	3.20													•			
41.27	1.20		•														
	1.50																•
	1.60		•														
44.45	1.20					•						•					
	1.50																•
	1.60	•	•	•	•	•			•			•			•		
	2.00					•						•					
	2.64													•			
47.62	1.50																•
	1.60				•												
50.80	1.20	•	•			•					•	•		•			
	1.50																•
	1.60	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	2.00	•		•		•		•		•		•					
	3.00								•								
	3.20													•	•		•
	3.25	•		•													
57.15	1.20					•						•					
	1.60					•						•					
	2.00					•						•					
57.50	1.50																•
	1.60	•															
63.50	1.20					•						•					
	1.50																•
	1.60	•	•	•	•	•		•	•	•	•	•	•	•	•		
	2.00	•				•			•			•					•
	3.25													•			

Please see end of table (page 64) for notes on seamless tube, food tube and ferritic tube.

STAINLESS STEEL ROUND TUBE (CONTINUED)

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	304 AW	304 AW POL	304 AWA	304 AWA POL	304 AS 1528	304 SMLS	316 AW	316 AW POL	316 AWA	316 AWA POL	316 AS 1528	316 AWA CW	316 SMLS	316 MIRROR POL	321 SMLS	409 AW
76.20	1.60	•	•	•	•	•		•	•	•	•	•	•	•			
	2.00	•		•		•		•				•					
	3.00	•							•								
	3.20	•												•			
	3.25	•												•			
88.90	1.60	•		•				•		•			•				
101.60	1.60	•	•	•	•	•		•	•	•	•	•	•				
	2.00	•				•		•		•		•					
	3.25	•												•			
127.00	1.60	•				•		•		•		•					
	2.00					•						•					
152.40	1.60					•		•		•		•					
	2.00	•				•						•					
203.20	2.00	•				•		•				•					
	2.50					•						•					
254.00	2.00					•						•					
	2.50					•						•					
	3.00					•						•					
304.80	2.00					•						•					
	2.50					•						•					
	3.00					•						•					

Seamless tube will normall be cold drawn (CD) and annealed (ANN) - hence these descriptions are not included in SMLS columns.

Food Tubing available to AS 1528 Part 1 is CW (weld bead removed) which either AW or ANN and either polished or unpolished. The sizes in this table are from the 2019 revision while the 2001 standard was more limited in small and large sizes and wall thickness. Check with suppliers before detailed design.

There is also ferritic tubing with corrosion resistance suitable for rural environments with OD 25.40 (wt 1.20 and 1.60) and OD 31.75 (wt 1.20 and 1.60).

STAINLESS STEEL OVAL TUBE

(mm)	(mm)	WALL THICKNESS (mm)	316 MIRROR
20	30	1.50	•
20	50	1.50	•
28	46	1.50	•
62	38	1.50	•
75	42	1.50	•
110	40	1.50	•

STAINLESS STEEL SQUARE TUBE

A/F DIMENSION (mm)	WALL THICKNESS (kg/m)	304	316
12.70	0.9	•	
	1.2	•	•
19.05	1.2	•	•
	1.6	•	•
22.20	1.2	•	
	1.6	•	
25.00	2.0	•	•
	3.0	•	
25.40	1.2	•	•
	1.6	•	•
31.75	1.2	•	•
	1.6	•	•
32.00	2.0	•	•
38.10	1.2	•	•
	1.6	•	•
	3.0	•	•
40.00	3.0	•	•
50.00	1.6	•	•
	2.0	•	
	3.0	•	•
60.00	3.0	•	•
80.00	2.0	•	
	3.0	•	•
100.00	3.0		•
	5.0	•	•
150.00	3.0	•	•
	5.0	•	•

A/F - Across flats.
May be available in AW and AWBP finishes.

STAINLESS STEEL RECTANGULAR TUBE

DIMENSIONS (mm)	WALL THICKNESS (mm)	304	316
31.75 x 12.70	1.20	•	
31.75 x 12.70	1.60	•	
38.10 x 12.70	1.20	•	
38.10 x 25.40	1.60	•	•
40.00 x 10.00	1.50		•
40.00 x 20.00	1.20	•	•
40.00 x 20.00	1.60	•	•
40.00 x 20.00	2.00	•	•
50.00 x 10.00	1.50	•	•
50.00 x 25.00	1.20	•	•
50.00 x 25.00	1.60	•	•
50.00 x 25.00	3.00	•	•
60.00 x 40.00	3.00	•	•
65.00 x 38.00	3.00	•	•
76.20 x 25.40	1.60	•	•
80.00 x 40.00	1.50	•	
80.00 x 40.00	3.00	•	•
84.10 x 38.10	1.60	•	•
84.00 x 38.00	3.00	•	•
100.00 x 50.0	2.00	•	
100.00 x 50.00	3.00	•	•
100.00 x 50.00	5.00	•	•
150.00 x 75.00	5.00	•	
150.00 x 100.00	5.00		•
200.00 x 100.00	6.00	•	•

May be available in AW and AWBP finishes.

PIPE AND TUBE FITTINGS

PIPE AND TUBE FITTINGS

Product Description

Fittings are parts used in a piping system to change direction or function and are mechanically joined to the system.

Fitting systems for pipe include butt weld pipe fittings, low pressure screwed fittings and high pressure screwed and socket weld fittings.

Flanges, used to connect pipe sections and to allow for rapid servicing, are used primarily for pipe and are available in various forms and pressure ratings to suit a range of applications. Refer to *Section 8.6 Flanges* of *ASSDA's 2020 Australian Stainless Reference Manual* for descriptions and illustrations.

Fitting systems appropriate for tube include butt weld tube fittings, food service fittings and compression tube fittings.

Refer to *Section 8.5 Fittings* of *ASSDA's 2020 Australian Stainless Reference Manual* for descriptions and illustrations of fitting types.

Relevant Standards

Butt weld pipe fittings

ASME B16.9	Factory-Made Wrought Buttwelding Fittings
MSS SP-43	Wrought and Fabricated Butt-Welding Fittings for Low Pressure, Corrosion Resistant Applications

Thread Forms

AS ISO 7.1	Pipe threads where pressure-tight joints are made on the threads Dimensions, tolerances and designation
ASME B1.20.1	Pipe Threads, General Purpose, Inch

Low pressure screwed fittings

ISO 4144	Pipework – Stainless Steel Fittings in Accordance with ISO 7-1

High pressure screwed (NPT) and socket weld pipe fittings

ASTM A182/A182M	Forged and Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service
ASME B16.11	Forged Fittings, Socket-Welding and Threaded
MSS SP-79	Socket-Welding Reducer Inserts
MSS SP-83	Class 3000 and 6000 Pipe Unions, Socket Welding and Threaded (Carbon Steel, Alloy Steel, Stainless Steels, and Nickel Alloys)
MSS SP-95	Swage(d) Nipples and Bull Plugs

Food and hygienic tube fittings

AS 1528.2	Stainless Steel Tube and Tube Fittings for Food Processing and Hygienic Applications, Part 2: Screwed Tube Cupplings
AS 1528.3	Stainless Steel Tube and Tube Fittings for Food Processing and Hygienic Applications, Part 3: Screwed Tube Cupplings
AS 1528.4	Stainless Steel Tube and Tube Fittings for Food Processing and Hygienic Applications, Part 4: Clamp Tube Fittings

Flanges

AS 2129	Flanges for Pipes, Valves and Fittings
AS/NZS 4087	Metallic Flanges for Waterworks Purposes
ASME B16.5	Pipe Flanges and Flanged Fittings: NPS ½ Through NPS 24 Metric/Inch Standard
ASME B16.47	Large Diameter Steel Flanges: NPS 26 Through NPS 60 Metric/Inch Standard
ASME B16.36	Orifice Flanges

PIPE BUTT WELDED FITTINGS

SIZE DN	SCH	45° LONG RADIUS ELBOW			90° LONG RADIUS ELBOW			90° SHORT RADIUS ELBOW			EQUAL TEE			REDUCING TEE			CAP			TYPE A STUB END			TYPE B STUB END			CONCENTRIC REDUCER			ECCENTRIC REDUCER		
		304/L	316/L	2205	304/L	316/L	2205	304/L	316/L	2205	304/L	316/L	2205	304/L	316/L	2205	304/L	316/L	2205	304/L	316/L	2205	304/L	316/L	2205	304/L	316/L	2205	304/L	316/L	2205
15	10S	•	•	•	•	•	•		•		•	•	•				•	•		•	•			•		•	•	•		•	
	40S	•	•		•	•	•				•	•	•				•	•	•	•	•			•		•	•	•		•	
	80S					•						•						•									•					
20	10S	•	•	•	•	•	•				•	•	•		•		•	•	•	•	•			•		•	•	•		•	
	40S	•	•		•	•	•				•	•	•		•		•	•	•	•	•			•		•	•	•		•	
	80S					•						•						•									•					
25	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•		•	
	40S	•	•		•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•		•	
	80S		•			•						•						•									•					
32	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•		•	•		•	•		•	•			•	
	40S	•	•		•	•	•				•	•	•		•		•	•		•	•		•	•		•	•			•	
	80S		•			•						•						•														
40	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•		•	
	40S	•	•		•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•		•	
	80S		•			•						•						•									•					
50	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	40S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	80S		•			•	•					•						•									•					
65	10S	•	•		•	•	•		•		•	•	•		•		•	•	•	•	•		•	•		•	•	•		•	
	40S	•	•		•	•	•		•		•	•	•		•		•	•	•	•	•		•	•		•	•	•		•	
	80S		•			•						•						•									•					
80	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	40S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	80S		•			•						•						•									•					
100	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	40S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	80S		•			•	•					•						•									•					
125	10S	•	•		•	•	•		•		•	•			•		•	•		•	•			•		•	•			•	
	40S	•	•		•	•	•		•		•	•					•	•		•	•			•		•	•			•	
	80S		•																												

PIPE BUTT WELDED FITTINGS (CONTINUED)

SIZE DN	SCH	45° LONG RADIUS ELBOW			90° LONG RADIUS ELBOW			90° SHORT RADIUS ELBOW			EQUAL TEE			REDUCING TEE			CAP			TYPE A STUB END			TYPE B STUB END			CONCENTRIC REDUCER			ECCENTRIC REDUCER		
		304 /L	316 /L	2205	304 /L	316 /L	2205	304 /L	316 /L	2205	304 /L	316 /L	2205	304 /L	316 /L	2205	304 /L	316 /L	2205	304 /L	316 /L	2205	304 /L	316 /L	2205	304 /L	316 /L	2205	304 /L	316 /L	2205
150	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	40S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	80S		•			•						•						•										•				
200	10S	•	•		•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•	•	•	
	40S	•	•	•	•	•	•	•	•		•	•			•		•	•		•	•		•	•		•	•		•	•	
	80S					•																									
250	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•		•	
	40S	•	•		•	•		•	•		•	•			•		•	•		•	•		•	•		•	•			•	
	80S					•																									
300	10S	•	•	•	•	•	•	•	•		•	•	•		•		•	•	•	•	•		•	•		•	•	•		•	
	40S	•	•		•	•		•	•		•	•			•		•	•		•	•		•	•		•	•			•	
	80S					•																									
350	10S	•	•		•	•					•	•						•		•	•			•		•	•			•	
	40S		•			•					•	•						•									•				
	80S																														
400	10S	•	•		•	•					•	•						•		•	•			•		•	•			•	
	40S		•		•	•					•	•						•									•				
	80S																														
450	10S	•	•		•	•					•	•						•		•	•										
	40S					•						•																				
	80S																														
500	10S	•	•		•	•					•	•						•		•	•										
	40S					•						•																				
	80S																														
550	10S					•						•																				
	40S					•						•																				
	80S																														
600	10S	•	•		•	•					•	•						•		•	•										
	40S					•						•																				
	80S																														

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PIPE SOCKET WELD HIGH PRESSURE FITTINGS

SIZE DN	PSI	45° ELBOW		90° ELBOW		EQUAL TEE		CAP		COUPLING		REDUCING COUPLING		UNION	
		304 /L	316 /L	304 /L	316 /L	304 /L	316 /L	304 /L	316 /L	304 /L	316 /L	304 /L	316 /L	304 /L	316 /L
6	3000		•		•		•				•				•
	6000														
	9000														
8	3000	•	•	•	•	•	•	•	•	•	•			•	•
	6000														
	9000														
10	3000	•	•	•	•	•	•	•	•	•	•			•	•
	6000														
	9000														
15	3000	•	•	•	•	•	•	•	•	•	•			•	•
	6000														
	9000														
20	3000	•	•	•	•	•	•	•	•	•	•		•	•	•
	6000														
	9000														
25	3000	•	•	•	•	•	•	•	•	•	•		•	•	•
	6000														
	9000														
32	3000		•		•		•				•				•
	6000														
	9000														
40	3000	•	•	•	•	•	•	•	•	•	•		•	•	•
	6000														
	9000														
50	3000	•	•	•	•	•	•	•	•	•	•		•	•	•
	6000														
	9000														

PIPE SCREWED LOW PRESSURE FITTINGS (316/L)

SIZE DN	45° ELBOW	90° ELBOW	90° M&F ELBOW	EQUAL TEE	HEXAGON CAP	SOCKET	REDUCING SOCKET	HEXAGON NIPPLE	BARREL NIPPLE	REDUCING NIPPLE	REDUCING BUSH	LOCK NUT	THREE PIECE UNION	SQUARE HEAD PLUG TAPERED	HEXAGON HEAD PLUG TAPERED
6	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
32	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
40	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
65	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
80	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90					•	•	•	•	•	•	•		•		•
100	•	•	•	•	•	•	•	•	•	•	•		•	•	•

PIPE SCREWED HIGH PRESSURE FITTINGS (316/L)

SIZE DN	THREAD	PSI	45° ELBOW	90° ELBOW	EQUAL TEE	CAP	COUPLING	REDUCING COUPLING	HALF COUPLING	HEXAGON NIPPLE	REDUCING NIPPLE	REDUCING BUSH	THREE PIECE UNION	HEXAGON HEAD PLUG TAPERED
6	NPT	3000	•	•	•	•	•		•	•			•	•
		6000												
8	NPT	3000	•	•	•	•	•		•	•	•	•	•	•
		6000												
10	NPT	3000	•	•	•	•	•		•	•	•	•	•	•
		6000												
15	NPT	3000	•	•	•	•	•	•	•	•	•	•	•	•
		6000										•		
20	NPT	3000	•	•	•	•	•	•	•	•	•	•	•	•
		6000										•		
25	NPT	3000	•	•	•	•	•	•	•	•	•	•	•	•
		6000										•		
32	NPT	3000	•	•	•	•	•	•	•	•	•	•	•	•
		6000										•		
40	NPT	3000	•	•	•	•	•	•	•	•	•	•	•	•
		6000										•		
50	NPT	3000	•	•	•	•	•	•	•	•	•	•	•	•
		6000										•		

FLANGES

ANSI FLANGES

SLIP ON RAISED FACE

	GRADE											
SIZE DN	304L					316L					2205	2507
RATING	150 lb	300 lb	600 lb	900 lb	1500 lb	150 lb	300 lb	600 lb	900 lb	1500 lb	150 lb	150 lb
15	•	•	•	•	•	•	•	•	•	•	•	
20	•	•	•	•	•	•	•	•	•	•	•	
25	•	•	•	•	•	•	•	•	•	•	•	
32	•	•	•	•	•	•	•	•	•	•		
40	•	•	•	•	•	•	•	•	•	•	•	
50	•	•	•	•	•	•	•	•	•	•	•	
65	•	•	•	•	•	•	•	•	•	•		
80	•	•	•	•	•	•	•	•	•	•	•	
100	•	•	•	•	•	•	•	•	•	•	•	•
125	•	•	•	•	•	•	•	•	•	•		
150	•	•	•	•	•	•	•	•	•	•	•	
200	•	•	•	•	•	•	•	•	•	•	•	•
250	•	•	•	•	•	•	•	•	•	•		
300	•					•	•	•	•	•		
350	•					•	•	•	•	•		•
400	•					•	•	•	•	•		•
450	•					•	•	•	•	•		•
500	•					•	•	•	•	•		
550						•	•	•	•	•		
600	•					•	•	•	•	•		

WELD NECK RAISED FACE

	GRADE																	
SIZE DN	**304L**							**316L**								**2205**		**2507**
RATING	**150 lb**		**300 lb**		**600 lb**	**900 lb**	**1500 lb**	**150 lb**			**300 lb**		**600 lb**	**900 lb**	**1500 lb**	**150 lb**		**150 lb**
	10S	**40S**	**40S**	**80S**	**80S**	**80S**	**80S**	**10S**	**40S**	**80S**	**40S**	**80S**	**80S**	**80S**	**80S**	**10S**	**40S**	**40S**
15	•	•	•	•	•		•	•	•	•	•	•	•		•		•	
20	•	•	•	•	•		•	•	•	•	•	•	•		•		•	
25	•	•	•	•	•		•	•	•	•	•	•	•		•	•	•	
32	•	•	•	•	•		•		•	•	•				•			
40	•	•	•	•	•		•	•	•	•	•	•	•		•	•	•	
50	•	•	•	•	•		•	•	•	•	•	•	•		•	•	•	
65	•	•	•	•	•			•	•	•	•	•	•					
80	•	•	•	•	•	•		•	•	•	•	•	•	•		•	•	
100	•	•	•	•	•	•		•	•	•	•	•	•	•		•	•	
125	•	•	•	•	•	•		•	•	•				•				
150	•	•	•	•	•	•		•	•	•	•	•	•	•		•	•	
200	•	•	•	•	•	•		•	•	•	•	•	•	•		•	•	
250	•	•	•	•	•			•	•									
300	•	•						•	•									
350									•									
400									•									
450									•									
500									•									
550																		
600									•									

In some pressure categories, larger schedules are available, including XS, Sch160 and XXS.

BLIND RAISED FACE

	GRADE											
SIZE DN	304L					316L					2205	2507
RATING	150 lb	300 lb	600 lb	900 lb	1500 lb	150 lb	300 lb	600 lb	900 lb	1500 lb	150 lb	150 lb
15	•	•	•	•	•	•	•	•	•	•	•	
20	•	•	•	•	•	•	•	•	•	•	•	
25	•	•	•	•	•	•	•	•	•	•	•	
32	•	•	•	•	•	•	•	•	•	•		
40	•	•	•	•	•	•	•	•	•	•	•	
50	•	•	•	•	•	•	•	•	•	•	•	
65	•	•	•	•	•	•	•	•	•	•		
80	•	•	•	•	•	•	•	•	•	•	•	
100	•	•	•	•	•	•	•	•	•	•	•	
125	•	•	•	•	•	•	•	•	•	•		
150	•	•	•	•	•	•	•	•	•	•	•	
200	•	•	•	•	•	•	•	•	•	•	•	
250	•	•	•	•	•	•	•	•	•	•		
300	•					•	•	•	•	•		
350	•					•	•	•	•	•		
400	•					•	•	•	•	•		
450	•					•	•	•	•	•		
500	•					•	•	•	•	•		
550						•	•	•	•	•		
600	•					•	•	•	•	•		

SOCKET WELD FLANGES

	GRADE													
SIZE DN	304L					316L							2205	2507
RATING	150 lb	300 lb	600 lb	900 lb	1500 lb	150 lb	150 lb	300 lb		600 lb	900 lb	1500 lb	150 lb	150 lb
	10S	40S	40S	80S	80S	40S	80S	40S	80S	40S	80S	80S	10S	10S
15						•	•	•	•					
20						•	•	•	•					
25						•	•	•	•					
32						•	•	•	•					
40						•	•	•	•					
50						•	•	•	•					

BOSSED BLIND RAISED FACE

	GRADE											
SIZE DN	304L					316L					2205	2507
RATING	150 lb	300 lb	600 lb	900 lb	1500 lb	150 lb	300 lb	600 lb	900 lb	1500 lb	150 lb	150 lb
15						•						
20						•						
25						•						
32						•						
40						•						
50						•						

AS 2129 TABLE FLANGES

TABLE D FLANGES

SIZE DN	GRADE			
	304L		316L	
	SLIP ON	BLIND	SLIP ON	BLIND
15	•	•		
20	•	•	•	
25	•	•	•	•
32			•	•
40	•	•	•	•
50	•	•	•	•
65			•	•
80	•	•	•	•
100	•	•	•	•
125			•	•
150	•	•	•	•
200	•	•	•	•
250	•	•	•	•
300	•	•	•	•
350			•	•
400			•	•
450			•	
500	•		•	
550			•	
600	•		•	

TABLE E FLANGES

SIZE DN	GRADE					
	304L			316L		
	SLIP ON	BLIND	SCREWED	SLIP ON	BLIND	SCREWED
15	•	•		•	•	
20	•	•		•	•	
25	•	•		•	•	
32	•			•	•	
40	•	•		•	•	•
50	•	•		•	•	•
65	•			•	•	
80	•	•		•	•	•
100	•	•		•	•	•
125	•			•	•	
150	•	•		•	•	•
200	•	•		•	•	
250	•	•		•	•	
300	•	•		•	•	
350	•			•	•	
400	•			•	•	
450	•			•	•	
500				•	•	
550				•	•	
600				•	•	
750				•		

TABLE H FLANGES

SIZE DN	GRADE			
	304L		316L	
	SLIP ON	BLIND	SLIP ON	BLIND
15				
20			•	
25			•	
32				
40			•	
50			•	
65			•	
80			•	
100			•	
125				
150			•	
200			•	
250				
300			•	
350				
400				
450				
500				
550				
600				

TUBE BORE SIZING FLANGES

SIZE DN	TABLE D		TABLE E			
	316L		304L		316L	
	SLIP ON	BLIND	SLIP ON	BLIND	SLIP ON	BLIND
12.7	•			•	•	
19.05	•			•	•	
25.4	•	•		•	•	•
31.75	•	•			•	•
38.1	•	•		•	•	•
50.8	•	•	•	•	•	•
63.5	•	•			•	•
76.2	•	•		•	•	•
101.6	•	•		•	•	•
127	•	•	•		•	•
152.4	•	•		•	•	•
203.2	•	•		•	•	•

AS 4087 WATERWORK FLANGES

	316L			
SIZE DN	PN 16		PN 35	
	SLIP ON	BLIND	SLIP ON	BLIND
15				
20				
25				
32				
40				
50	•			
65	•		•	
80	•			
100	•		•	
125				
150	•			
200	•		•	
250	•			
300	•		•	
350	•			
400	•			
450	•			
500				
600				
700				
750				
800				
900				
1000				
1200				

TUBE SCREWED FITTINGS

OD (mm/inch)	BSM (O RING)	CIP AUSTRALIAN	CIP FLAT FACED
25.4/1	•	•	•
38.1/1.5	•	•	•
50.8/2	•	•	•
63.6/2.5	•	•	•
76.2/3	•	•	•
101.6/4	•	•	•
152.4/6	•	•	•

TUBE CONNECTORS (316/L)

OD (mm/inch)	WT (mm/inch)	BSM (O RING)	CIP AUSTRALIAN	CIP FLAT FACED	CLAMP LINER
25.4	0.9				
1	1.2				
	1.5				
	1.6	•	•	•	•
	2.0				
38.1	0.9				
1.5	1.2				
	1.5				
	1.6	•	•	•	•
	2.0				
50.8	0.9				
2	1.2				
	1.5				
	1.6	•	•	•	•
	2.0				
63.6	0.9				
2.5	1.2				
	1.5				
	1.6	•	•	•	•
	2.0				
76.2	0.9				
3	1.2				
	1.5				
	1.6	•	•	•	•
	2.0				
101.6	0.9				
4	1.2				
	1.5				
	1.6	•	•	•	•
	2.0				
152.4	0.9				
6	1.2				
	1.5				
	1.6	•	•	•	•
	2.0				

PROPRIETARY TUBE COMPRESSION FITTINGS (316/L)

OD (mm/inch)	M&F ELBOW	M&F BRANCH TEE	M&F CONNECTOR	M&F BULKHEAD CONNECTOR	M&F RUN TEE	M&F ADAPTOR	UNION	UNION ELBOW	UNION TEE	REDUCING UNION	UNION BULKHEAD	PLUG	CAP	REDUCER PORT	REDUCING CONNECTOR
3.18 : 1/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4.76 : 3/16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6.35 : 1/4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7.94 : 5/16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9.53 : 3/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12.70 : 1/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15.88 : 5/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
19.05 : 3/4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25.40 : 1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
31.75 : 1 1/4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
38.10 : 1 1/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
50.8 : 2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

These fittings are often used with seamless tube.

TUBE FITTINGS

OD (mm/inch)	45° BEND		90° BEND		EQUAL TEES		REDUCING TEES		CONCENTRIC REDUCERS		ECCENTRIC REDUCERS	
	304/L	316/L	304/L	316/L	304/L	316/L	304/L	316/L	304/L	316/L	304/L	316/L
12.70 : 1/2			•	•								
19.05 : 3/4			•	•								
25.40 : 1	•	•	•	•						•		•
31.75 : 1 1/4	•	•	•	•						•		•
38.10 : 1 1/2	•	•	•	•	•	•		•		•		•
50.80 : 2	•	•	•	•	•	•		•		•		•
63.50 : 2 1/2	•	•	•	•	•	•		•		•		•
76.20 : 3	•	•	•	•	•	•		•		•		
101.60 : 4	•	•	•	•						•		•
127.00 : 5										•		•
152.40 : 6										•		•

TUBE BUTT WELDED FITTINGS

OD (mm/ inch)	WT (mm)	45° BEND		90° BEND		180° BEND		EQUAL TEES		REDUCING TEES		EQUAL CROSSES		CONCENTRIC REDUCERS		ECCENTRIC REDUCERS	
		304/L	316/L	304/L	316/L	304/L	316/L	304/L	316/L	304/L	316/L	304/L	316/L	304/L	316/L	304/L	316/L
12.70 : 1/2	1.6		•		•				•						•		
19.05 : 3/4	1.6		•	•	•		•		•						•		
25.40 : 1	1.6	•	•	•	•		•	•	•				•		•		•
31.75 : 1 1/4	1.6	•	•	•	•		•	•	•				•		•		•
38.10 : 1 1/2	1.6	•	•	•	•		•	•	•		•		•		•		•
44.45 : 1 3/4	1.6				•												
50.80 : 2	1.6	•	•	•	•		•	•	•		•		•		•		•
63.50 : 2 1/2	1.6	•	•	•	•		•	•	•		•		•		•		•
76.20 : 3	1.6	•	•	•	•		•	•	•		•		•		•		•
88.90 : 3 1/2	1.6				•												
101.60 : 4	1.6	•	•	•	•		•	•	•		•		•		•		•
127.00 : 5	1.6		•	•	•			•	•						•		•
	2			•	•												
152.40 : 6	1.6							•	•		•				•		•
	2	•	•	•	•			•	•								
203.20 : 8	2			•	•				•						•		•
254.00 : 10	2			•	•				•						•		
304.80 : 12	2			•	•				•						•		

FASTENERS

FASTENERS

Product Description

A wide variety of fastening products (both screw and bolt type) are readily stocked. Grades available are 304 and 316, however some products are available in higher strength variants including duplex and super duplex stainless steels.

Bolts are generally referred to as being fastened with a backing nut, while screws primarily fasten through a tight bond with the material through which it penetrates.

Threads are generally stocked to both metric and UNC/UNF standards, depending on the specification to which they are produced.

Refer to *Section 8.8 Fasteners* of *ASSDA's 2020 Australian Stainless Reference Manual* for descriptions.

Types of Fasteners

Bolt-type

- Bolts
    - o Cup head bolts
    - o Hex head bolts
- Nuts
    - o Collared lock nuts
    - o Dome hex nuts
    - o Flanged nuts
    - o Hex nuts
    - o Locking nuts
    - o Serrated flange nuts
    - o Shear nuts
    - o Square nuts
    - o Thin hex lock nuts
    - o Wing nuts
- Threaded rod

Screw-type

- Socket
    - o Button head socket
    - o Cap head
- Countersunk flat socket
- Countersunk wood
- Grub socket
- Hex head
- Metric hex
- Mushroom head
- Pan head
- Cheese head
- Phillips/Slot head countersunk
- Round head
- Self-tapping
    - o Countersunk
    - o Pan head
    - o Hex security
- Type 17 screws

Relevant Standards

Manufacturers generally supply to the industry accepted standards given in the left column. In some cases, there has been rationalism and consolidation and ISO or ASME or other standards now cover the customary specification. In these cases, an alternative specification is provided in brackets.

ANSI B18.17	Wing Nuts, Thumb Screws, and Wing Screws – Fasteners in Customary Units (ASME B18.6.9 Wing Nuts (Inch Series))
ANSI/ASME B18.3	Socket Cap, Shoulder, and Set Screws (Inch Series)
ANSI/ASME B18.5	Round Head Bolts (Inch Series)
ANSI/ASME B18.6.4	Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws – Inch
AS 3501	Parallel Screw Threads of Whitworth Form (BSW and BSF) and Associated Gauges and Gauging Practice
AS/NZS 1427	ISO Metric Machine Screws
ASME B18.2.1	Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series)

Relevant Standards Continued

ASME B18.2.2	Nuts for General Applications: Machine Screw Nuts, Hex, Square, Hex Flange, and Coupling Nuts (Inch Series)
BS 1083	Precision Hexagon Bolts, Screws, and Nuts (B.S.W. & B.S.F. Threads)
BS 450	Machine Screws and Machine Screw Nuts (B.S.W. & B.S.F. Threads)
DIN 1587	Hexagon Domed Cap Nits, High Type
DIN 439-1	Unchamfered Hexagon Thin Nuts – Product Grade B (ISO 4035 Hexagon Thin Nuts Chamfered (Style 0) – Products Grades A and B)
DIN 557	Square Nuts; Product Grade C
DIN 571	Hexagon Head Wood Screws
DIN 603	Cup Head Square Neck Bolts
DIN 7894	Hexagon Socket Head Cap Screws With Low Head
DIN 7985H	Cross Recessed Raised Cheese Head Screw (ISO 10511 Prevailing Torque Type Hexagon Thin Nuts (With Non-Metallic Insert))
DIN 7991	Hexagon Socket Countersunk Head Cap Screws (ISO 10642 Fasteners – Hexagon Socket Countersunk Head Screws With Reduced Loadability)
DIN 84	Slotted Cheese Head Screws; Product Grade A (DIN EN ISO 1207 Slotted Cheese Head Screws – Product Grade A)
DIN 85	Slotted Pan Head Screws (DIN EN ISO 1580 Slotted Pan Head Screws – Product Grade A)
DIN 912	Timber Fasteners – Specifications for Connectors for Timbers
DIN 916	Hexagon Socket Set Screws with Cut Point (ISO 4029 Hexagon Socket Set Screws With Cup Point)
DIN 929	Hexagon Weld Nuts
DIN 931	Hexagon Head Bolts With Shank (ISO 4014 Hexagon Head Bolts – Product Grades A and B)
DIN 933	Hexagon Head Screw (ISO 4017 Fasteners – Hexagon Head Screws – Product Grades A and B)
DIN 934	Hexagon Nuts (ISO 4032 Hexagon Regular Nuts (Style 1) – Product Grades A and B)
DIN 963	Slotted Countersunk Head Screws (ISO 2009 Slotted Countersunk Flat Head Screws – Product Grade A)
DIN 964	Slotted Raised Countersunk Oval Head Screws (ISO 2010 Slotted Raised Countersunk Head Screws – Product Grade A)
DIN 965H	Cross Recessed Countersunk Flat Head Screws (ISO 7046-1 Countersunk Flat Head Screws (Common Head Style) with Type H or Type Z Cross Recess – Product Grade A – Part 1: Steels Screws of Property Class 4.8)
DIN 975	Threaded Rods (DIN 976-1 Fasteners – Stud Bolts – Part 1: Metric Thread)
DIN 976-1	Fasteners – Stud Bolts – Part 1: Metric Thread
DIN 985	Nylon Insert Hex Lock Nut (DIN EN ISO 10511 Prevailing Torque Type Hexagon Thin Nuts (With Non-Metallic Insert) (ISO 10511)

Relevant Standards Continued

IFI 136	Studs and Bent Bolts (ASME B18.31.5 Bent Bolts (Inch Series)
IFI 145	Hex Flange Nuts and Large Hex Flange Nuts
ISO 10642	Hexagon Socket Countersunk Head Screws
ISO 4014	Hexagon Head Bolts – Product Grades A and B
ISO 4017	Fasteners – Hexagon Head Screws – Product Grades A and B
ISO 4032	Hexagon Regular Nuts (Style 1) – Product Grades A and B
ISO 4161	Hexagon Nuts With Flange, Style 2 – Coarse Thread
ISO 4762	Hexagon Socket Head Cap Screws
ISO 7380	Hexagon Socket Button Head Screws
JIS B1112	Cross-Recessed Head Wood Screws

CUP HEAD BOLTS

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
UNC (inch)	1/4	3/4		
	1/4	1		
	1/4	1-1/4		
	1/4	2		
	1/4	2-1/2		
	1/4	3		
	1/4	4		
	1/4	5		
	1/4	6		
	5/16	1		
	5/16	1-1/4		
	5/16	1-1/2		
	5/16	2		
	5/16	2-1/2		
	5/16	3		
	5/16	4		
	5/16	5		
	5/16	6		
	3/8	1		
	3/8	1-1/4		
	3/8	1-1/2		
	3/8	2		
	3/8	2-1/2		
	3/8	3		
	3/8	3-1/2		
	3/8	4		
	3/8	5		
	3/8	6		
	1/2	1-1/4		
	1/2	2		
	1/2	2-1/2		
	1/2	3		
	1/2	4		
	1/2	5		
	1/2	6		
METRIC (mm)	M10	20	M6	20
			M6	25
			M6	30
			M6	40
			M6	50
			M6	60

This table continues on next page.

CUP HEAD BOLTS (CONTINUED)

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
METRIC (mm)			M6	70
			M6	80
			M8	20
			M8	25
			M8	30
			M8	40
			M8	50
			M8	60
			M8	80
			M8	100
	M10	20		
			M10	25
			M10	30
			M10	40
			M10	50
			M10	60
			M10	70
			M10	80
			M10	100
			M10	120
			M10	130
			M12	40
			M12	50
			M12	60
			M12	70
			M12	80
			M12	100
			M12	120
			M12	130
			M12	220
			M16	70
			M16	100
			M16	120

BUMAX®

THE WORLD'S STRONGEST STAINLESS STEEL BOLT

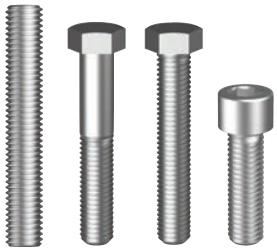
- Bumax® 88 tensile strength equivalent to Class 8.8.
- Bumax® 109 tensile strength equivalent to Class 10.9.
- Unmatched corrosion resistance.
- Guaranteed traceability. Test certificates online.
- Lower install cost solution. Smaller bolt with greater strength.
- Low and High Temperature Applications (-200ºC to +400ºC).
- Non Magnetic.

BUMAX®

NEPTUNE®

HIGH-TENSILE STAINLESS A4-80

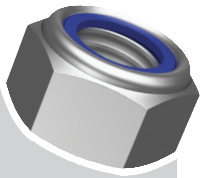
- All of the Neptune range is to DIN standards.

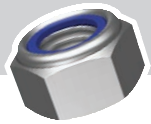


Neptune®

NYLOC®

Nylon insert **locknuts**



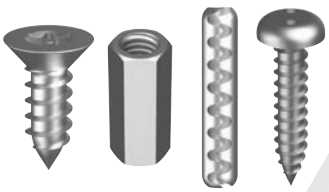


Anti-vibration solution.

STAINLESS FASTENERS

HIGH QUALITY STAINLESS

- Hobson's Stainless Fasteners range of – bolts, nuts, set screws, threaded rod, socket screws and washers, are manufactured to high quality standards.
- Metric range is manufactured to DIN and ISO standards.
- Imperial range UNC UNF is to ANSI standards.



2007151

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

hobson.com.au **QUALITY FASTENERS** SINCE 1935

HOBSON ENGINEERING

HEX HEAD BOLTS

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
IFI 136C										
UNC (inch)	1/4	1-1/4	1/4	1-1/4	3/8	4				
	1/4	1-1/2	1/4	1-1/2	3/8	1-1/2				
	1/4	1-3/4	1/4	1-3/4	3/8	1-1/2				
	1/4	2	1/4	2	3/8	5-1/2				
	1/4	2-1/4	1/4	2-1/4	3/4	3				
	1/4	2-1/2	1/4	2-1/2						
	1/4	2-3/4	1/4	3						
	1/4	3	1/4	3-1/2						
	1/4	3-1/2	1/4	4						
	1/4	4	1/4	4-1/2						
	1/4	4-1/2	1/4	5						
	1/4	5	1/4	6						
	1/4	5-1/2	5/16	1-1/2						
	1/4	6	5/16	1-3/4						
	5/16	1-1/2	5/16	2						
	5/16	1-3/4	5/16	2-1/4						
	5/16	2	5/16	2-1/2						
	5/16	2-1/4	5/16	2-3/4						
	5/16	2-1/2	5/16	3						
	5/16	2-3/4	5/16	3-1/2						
	5/16	3	5/16	4						
	5/16	3-1/2	5/16	4-1/2						
	5/16	4	5/16	5						
	5/16	4-1/2	5/16	5-1/2						
	5/16	5	5/16	6						
	5/16	5-1/2	3/8	1-1/2						
	5/16	6	3/8	1-3/4						
	3/8	1-1/2	3/8	2						
	3/8	1-3/4	3/8	2-1/4						
	3/8	2	3/8	2-1/2						
	3/8	2-1/4	3/8	2-3/4						
	3/8	2-1/2	3/8	3						
	3/8	2-3/4	3/8	3-1/2						
	3/8	3	3/8	4						
	3/8	3-1/2	3/8	4-1/2						
	3/8	4	3/8	5						
	3/8	5	3/8	5-1/2						
	3/8	5-1/2	3/8	6						
	3/8	6	3/8	7						
	1/2	2	3/8	8						
	1/2	2-1/2	7/16	1-3/4						
	1/2	3	7/16	2						
	1/2	3-1/2	7/16	2-1/2						
	1/2	4	7/16	3						
	1/2	4-1/2	1/2	2						
	1/2	5	1/2	2-1/4						
	1/2	6	1/2	2-1/2						
	5/8	2	1/2	2-3/4						
	5/8	2-1/4	1/2	3						

This table continues on next page.

HEX HEAD BOLTS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
IFI 136C										
UNC (inch)	5/8	2-1/2	1/2	3						
	5/8	2-3/4	1/2	3-1/4						
	5/8	3	1/2	3-1/2						
	5/8	3-1/2	1/2	4						
	5/8	4	1/2	4-1/2						
	5/8	4-1/2	1/2	5						
	5/8	5	1/2	5-1/2						
	5/8	5-1/2	1/2	6						
	5/8	6	1/2	6-1/2						
	3/4	2-1/2	1/2	7						
	3/4	2-3/4	1/2	7-1/2						
	3/4	3	1/2	8						
	3/4	3-1/2	5/8	8-1/2						
	3/4	4	5/8	2						
	3/4	4-1/2	5/8	2-3/4						
	3/4	5	5/8	3						
	3/4	5-1/2	5/8	3-1/2						
	3/4	6	5/8	4						
	3/4	7	5/8	4-1/2						
			5/8	5						
			5/8	5-1/2						
			5/8	6						
			5/8	7						
			5/8	8						
			3/4	2-1/2						
			3/4	2-3/4						
			3/4	3						
			3/4	3-1/2						
			3/4	4						
			3/4	4-1/2						
			3/4	5						
			3/4	5-1/2						
			3/4	6						
			3/4	7						
			7/8	3						
			7/8	3-1/2						
			7/8	4						
			7/8	4-1/2						
			7/8	5						
			7/8	6						
			1	3						
			1	3-1/2						
			1	4						
			1	4-1/2						
			1	5						
			1	6						

This table continues on next page.

HEX HEAD BOLTS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
IFI 136C										
UNF (inch)	1/4	1-1/4								
	5/16	1-1/2								
	5/16	2								
	5/16	2-1/2								
	3/8	1-1/2								
	3/8	2								
	3/8	2-1/2								
	1/2	2								
	1/2	2-1/2								
	1/2	3								
	5/8	3								
BSW			1/2	1-1/2						
			1/2	1-3/4						
			1/2	2-1/2						
			1/2	3						
			1/2	3-1/2						
			1/2	4						
			1/2	4-1/2						
METRIC (mm)	M6	30	M6	30	M6	30	M6	30	M6	30
	M6	35	M6	35	M6	35	M6	35	M6	35
	M6	40	M6	40	M6	40	M6	40	M6	40
	M6	45	M6	45	M6	45	M6	45	M6	45
	M6	50	M6	50	M6	50	M6	50	M6	50
	M6	55	M6	55	M6	55	M6	55	M6	55
	M6	60	M6	60	M6	60	M6	60	M6	60
	M6	65	M6	65	M6	65	M6	65	M6	65
	M6	70	M6	70	M6	70	M6	70	M6	70
	M6	75	M6	75	M6	80	M6	80	M6	75
	M6	80	M6	80	M6	90	M6	90	M6	80
	M6	90	M6	90	M6	100	M6	100	M8	35
	M6	100	M6	100	M6	110	M6	110	M8	40
	M6	130	M6	110	M6	120	M6	120	M8	45
	M6	150	M6	130	M6	130	M6	130	M8	50
	M8	30	M6	140	M8	35	M8	35	M8	55
	M8	35	M6	150	M8	40	M8	40	M8	60
	M8	40	M8	35	M8	45	M8	45	M8	65
	M8	45	M8	40	M8	50	M8	50	M8	70
	M8	50	M8	45	M8	55	M8	55	M8	75
	M8	55	M8	50	M8	60	M8	60	M8	80
	M8	60	M8	55	M8	65	M8	65	M10	45
	M8	65	M8	60	M8	70	M8	70	M10	50
	M8	70	M8	65	M8	75	M8	75	M10	55
	M8	75	M8	70	M8	80	M8	80	M10	60
	M8	80	M8	75	M8	90	M8	90	M10	65

This table continues on next page.

HEX HEAD BOLTS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
IFI 136C										
METRIC (mm)	M8	90	M8	80	M8	100	M8	100	M10	70
	M8	100	M8	90	M8	110	M8	110	M10	75
	M8	110	M8	100	M8	120	M8	120	M10	80
	M8	120	M8	110	M8	130	M8	130	M10	90
	M8	130	M8	120	M8	140	M8	140	M10	100
	M8	140	M8	130	M8	150	M8	150	M12	45
	M8	150	M8	140	M10	40	M10	40	M12	50
	M10	35	M8	150	M10	45	M10	45	M12	55
	M10	40	M10	40	M10	50	M10	50	M12	60
	M10	45	M10	45	M10	55	M10	55	M12	65
	M10	50	M10	50	M10	60	M10	60	M12	70
	M10	55	M10	55	M10	65	M10	65	M12	75
	M10	60	M10	60	M10	7	M10	70	M12	80
	M10	65	M10	65	M10	75	M10	75	M12	90
	M10	70	M10	70	M10	80	M10	80	M12	100
	M10	75	M10	75	M10	85	M10	85	M12	120
	M10	80	M10	80	M10	90	M10	90	M16	55
	M10	90	M10	90	M10	100	M10	100	M16	60
	M10	100	M10	100	M10	110	M10	110	M16	65
	M10	110	M10	110	M10	120	M10	120	M16	70
	M10	120	M10	120	M10	130	M10	130	M16	75
	M10	130	M10	130	M10	140	M10	140	M16	80
	M10	140	M10	140	M10	150	M10	150	M16	90
	M10	150	M10	150	M10	160	M10	160	M16	100
	M10	160	M10	160	M10	180	M10	180	M16	110
	M10	170	M10	170	M10	200	M10	200	M16	120
	M10	180	M10	180	M12	45	M12	45	M16	150
	M10	200	M10	200	M12	50	M12	50		
	M10	210	M10	220	M12	55	M12	55		
	M10	220	M10	240	M12	60	M12	60		
	M10	230	M10	250	M12	65	M12	65		
	M10	240	M10	260	M12	70	M12	70		
	M10	250	M10	280	M12	75	M12	75		
	M10	260	M10	300	M12	80	M12	80		
	M10	270	M12	40	M12	90	M12	90		
	M10	280	M12	45	M12	100	M12	100		
	M10	290	M12	50	M12	110	M12	110		
	M10	300	M12	55	M12	120	M12	120		
	M12	40	M12	60	M12	130	M12	130		
	M12	45	M12	65	M12	140	M12	140		
	M12	50	M12	70	M12	150	M12	150		
	M12	55	M12	75	M12	160	M12	160		
	M12	60	M12	80	M12	180	M12	180		
	M12	65	M12	90	M14	80	M14	80		
	M12	70	M12	100	M14	90	M14	90		

This table continues on next page.

HEX HEAD BOLTS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
IFI 136C										
METRIC (mm)	M12	75	M12	110	M14	100	M14	100		
	M12	80	M12	120	M14	120	M14	120		
	M12	90	M12	130	M14	140	M14	140		
	M12	100	M12	140	M16	45	M16	50		
	M12	110	M12	150	M16	50	M16	55		
	M12	120	M12	160	M16	55	M16	60		
	M12	130	M12	170	M16	60	M16	65		
	M12	140	M12	180	M16	65	M16	70		
	M12	150	M12	190	M16	70	M16	75		
	M12	160	M12	200	M16	75	M16	80		
	M12	170	M12	210	M16	80	M16	90		
	M12	180	M12	220	M16	90	M16	100		
	M12	190	M12	240	M16	100	M16	110		
	M12	200	M12	250	M16	110	M16	120		
	M12	210	M12	260	M16	120	M16	130		
	M12	220	M12	280	M16	130	M16	140		
	M12	230	M12	300	M16	140	M16	150		
	M12	240	M14	50	M16	150	M16	160		
	M12	250	M14	60	M16	160	M16	170		
	M12	260	M14	70	M16	170	M16	180		
	M12	270	M14	75	M16	180	M16	200		
	M12	280	M14	80	M16	200	M18	90		
	M12	290	M14	90	M18	90	M18	100		
	M12	300	M14	100	M18	100	M18	120		
	M16	50	M14	120	M18	120	M18	140		
	M16	55	M14	140	M18	140	M18	150		
	M16	60	M14	150	M18	150	M20	70		
	M16	65	M16	50	M20	60	M20	75		
	M16	70	M16	55	M20	65	M20	80		
	M16	75	M16	60	M20	70	M20	90		
	M16	80	M16	65	M20	75	M20	100		
	M16	90	M16	70	M20	80	M20	110		
	M16	100	M16	75	M20	90	M20	120		
	M16	110	M16	80	M20	100	M20	130		
	M16	120	M16	90	M20	110	M20	140		
	M16	130	M16	100	M20	120	M20	150		
	M16	140	M16	110	M20	130	M20	160		
	M16	150	M16	120	M20	140	M20	180		
	M16	160	M16	130	M20	150	M20	200		
	M16	170	M16	140	M20	160	M24	75		
	M16	180	M16	150	M20	180	M24	80		
	M16	190	M16	160	M20	200	M24	90		
	M16	200	M16	170	M20	425	M24	100		
	M16	210	M16	180	M20	450	M24	110		
	M16	220	M16	200	M20	500	M24	120		

This table continues on next page.

HEX HEAD BOLTS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
IFI 136C										
METRIC (mm)	M16	240	M16	220	M20	600	M24	130		
	M16	250	M16	240	M20	700	M24	140		
	M16	260	M16	250	M20	800	M24	150		
	M16	270	M16	260	M24	75	M24	160		
	M16	280	M16	280	M24	80	M24	180		
	M16	290	M16	300	M24	90	M24	200		
	M16	300	M18	80	M24	100	M27	100		
	M20	60	M18	100	M24	110	M27	110		
	M20	65	M18	120	M24	120	M27	120		
	M20	70	M18	150	M24	130	M27	130		
	M20	75	M20	60	M24	140	M27	140		
	M20	80	M20	65	M24	150	M27	150		
	M20	90	M20	70	M24	160	M27	160		
	M20	100	M20	75	M24	170	M27	180		
	M20	110	M20	80	M24	180	M27	200		
	M20	120	M20	90	M24	200	M27	210		
	M20	130	M20	100	M27	80	M30	80		
	M20	140	M20	110	M27	100	M30	90		
	M20	150	M20	120	M27	110	M30	100		
	M20	160	M20	130	M27	120	M30	110		
	M20	190	M20	140	M27	130	M30	115		
	M20	200	M20	150	M27	140	M30	120		
	M20	375	M20	160	M27	150	M30	130		
	M20	400	M20	170	M27	160	M30	140		
	M20	425	M20	180	M27	180	M30	150		
	M24	80	M20	190	M27	200	M30	160		
	M24	90	M20	200	M27	210	M30	180		
	M24	100	M20	220	M30	75	M30	200		
	M24	110	M20	240	M30	80	M30	235		
	M24	120	M20	250	M30	90	M36	100		
	M24	130	M20	260	M30	100	M36	120		
	M24	140	M20	280	M30	110	M36	140		
	M24	150	M20	300	M30	115	M36	160		
	M24	160	M20	350	M30	120	M36	180		
	M24	170	M20	375	M30	130	M36	200		
	M24	180	M20	400	M30	140	M36	210		
	M24	190	M20	425	M30	150	M36	220		
	M24	200	M20	450	M30	160	M36	240		
			M24	90	M36	160				
			M24	100	M36	180				
			M24	110	M36	200				
			M24	120	M36	210				
			M24	130	M36	220				
			M24	140	M36	240				
			M24	150						

This table continues on next page.

HEX HEAD BOLTS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
IFI 136C										
METRIC (mm)			M24	160						
			M24	170						
			M24	180						
			M24	190						
			M24	200						
			M24	210						
			M24	220						
			M24	240						
			M24	250						
			M24	260						
			M24	280						
			M24	300						
			M24	350						
			M24	400						
			M24	500						
			M27	90						
			M27	100						
			M27	110						
			M27	120						
			M27	130						
			M27	140						
			M27	150						
			M27	160						
			M27	170						
			M27	180						
			M27	200						
			M27	220						
			M27	240						
			M27	250						
			M27	260						
			M27	280						
			M27	300						
			M30	90						
			M30	100						
			M30	110						
			M30	120						
			M30	130						
			M30	140						
			M30	150						
			M30	160						
			M30	170						
			M30	180						
			M30	200						
			M30	220						
			M30	240						

This table continues on next page.

HEX HEAD BOLTS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
IFI 136C										
METRIC (mm)			M30	250						
			M30	260						
			M30	280						
			M30	300						
			M33	100						
			M33	120						
			M33	130						
			M33	140						
			M33	150						
			M33	160						
			M33	170						
			M33	180						
			M33	200						
			M33	260						
			M33	280						
			M36	100						
			M36	110						
			M36	120						
			M36	130						
			M36	140						
			M36	150						
			M36	170						
			M36	180						
			M36	200						
			M36	220						
			M36	240						
			M36	250						
			M36	260						
			M36	280						
			M36	300						
			M36	400						
			M39	400						
			M42	200						
			M42	250						
			M42	300						
			M42	450						
			M48	450						

NUTS

COLLARED LOCK NUT

THREAD SPECIFICATION	GRADE		
	304 (A2)	316 (A4)	HT 88
METRIC (mm)			M12
			M16
			M20

FLANGED LOCK NUT

THREAD SPECIFICATION	GRADE		
	304 (A2)	316 (A4)	HT 88
METRIC (mm)			M6
			M8
			M10
			M12

DOME HEX NUTS

THREAD SPECIFICATION	GRADE		
	304 (A2)	316 (A4)	2507
UNC (inch)	8-32		
	10-24		
	1/4		
	5/16		
	3/8		
	7/16		
	1/2		
	5/8		
UNF (inch)	10-32		
	1/4		
	5/16		
	3/8		
	1/2		
BSW (2PC WELD)	1/2		
DIN 1587			
METRIC	M3		
	M4	M4	
	M5	M5	
	M6	M6	
	M8	M8	
	M10	M10	M10
	M12	M12	M12
	M16	M16	M16
		M20	M20
		M24	M24
		M30	
		M36	
METRIC HEC	M4		
(2PC WELD)	M5		
	M16		

HEX NUT

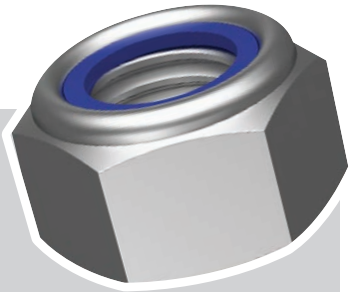
THREAD SPECIFICATION	GRADE					
	304 (A2)	316 (A4)	316 (A4-80)	HT 88	HT 109	2507
IFI 145						
UNC (inch)	2-56					
	4-40					
	5-40					
	6-32					
	8-32	8-32				
	10-24	10-24				
	1/4	1/4				
	5/16	5/16				
	3/8	3/8		3/8		
		7/16				
	1/2	1/2		1/2		
		9/16				
	5/8	5/8				
	3/4	3/4				
	7/8	7/8				
	1	1				
		1-1/8				
		1-1/4				
UNF (inch)	10-32	10-32				
	1/4	1/4				
	5/16	5/16				
	3/8	3/8				
		7/16				
	1/2	1/2				
		5/8				
		3/4				
		7/8				
		1				
BSW BS 1083						
		1/2				
		3/16				
		1/2				
DIN 934 FINE						
	M10-1.25					
	M12-1.50					
	M12-1.25					
	M16-1.50					
DIN 929 WELDED NUT						
METRIC (mm)	M3					
	M4					
	M5					
	M6	M6				
	M8	M8				
	M2	M2				
	M2.5	M2.5				
	M3	M3				
	M4	M4				
	M5	M5*				
	M6	M6*	M6	M6	M6	
	M8	M8*	M8	M8	M8	

HEX NUT (CONTINUED)

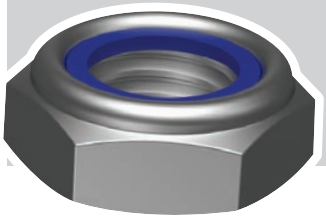
THREAD SPECIFICATION	GRADE					
	304 (A2)	316 (A4)	316 (A4-80)	HT 88	HT 109	2507
DIN 929 WELDED NUT						
METRIC (mm)	M10	M10*	M10	M10	M10	M10
	M12	M12*	M12	M12	M12	M12
	M14	M14		M14		
	M16	M16*	M16	M16	M16	M16
		M18		M18		
	M20	M20	M20	M20	M20	M20
		M22				
	M24	M24	M24	M24	M24	
		M27	M27	M27		
	M30	M30	M30	M30		
		M33	M33	M33		
		M36	M36	M36		
		M39				
		M42				
		M48				
		M56				
		M64				

* Available in left hand thread

NYLOC®



Nylon insert
locknuts



Anti-vibration solution.

» Nuts resist turning and vibration with a special nylon insert.
» Nuts available in A2, A4 and A4-80.

2007161

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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HOBSON ENGINEERING

LOCKING NUTS

THREAD SPECIFICATION	GRADE			
	304 (A2)	316 (A4)	316 (A4-80)	2507
"HOBLOCH" STYLE				
	M6			
	M8			
	M10			
	M12			
	M16			
	M20			
METRIC FINE	M10			
	M12			
BSW	1/2			
NYLOC STYLE				
UNC - HEC	1/4			
	5/16			
	3/8			
	1/2			
IFI-100/107				
	4-40			
	5-40			
	6-32			
	8-32			
	10-24	10-24		
	1/4	1/4		
	5/16	5/16		
	3/8	3/8		
		7/16		
	1/2	1/2		
	5/8	8/8		
	3/4	3/4		
		7/8		
	1	1		
UNF HEC	10-32			
	1/4	1/4		
	5/16	5/16		
	3/8	3/8		
	3/8	7/16		
	1/2	1/2		
		5/8		
		3/4		
		1		
BSW HEC	1/2	1/2		
DIN 985				
METRIC (mm)	M2.5			
	M3	M3		
	M4	M4		
	M5	M5		
	M6	M6		
	M8	M8		
	M10	M10	M10	M10
	M12	M12	M12	M12
		M14	M14	
	M16	M16	M16	M16
		M18	M18	
	M20	M20	M20	M20
		M24	M24	
		M27	M27	
		M30	M30	
		M36	M36	

SERRATED FLANGE NUT

THREAD SPECIFICATION	GRADE		
	304 (A2)	316 (A4)	HT 88
IFI 145			
UNC (inch)		3/8	
ISO 4161			
METRIC (mm)		M4	
	M5	M5	
	M6	M6	M6
	M8	M8	
	M10	M10	M10
	M12	M12	M12
			M20

SHEAR NUTS

THREAD SPECIFICATION	GRADE	
	304 (A2)	316 (A4)
METRIC (mm)	M6	
	M8	
	M10	
	M12	

SQUARE NUT

THREAD SPECIFICATION	GRADE
	304 (A2)
METRIC DIN 557	M5
	M6
	M8
	M10
	M12

THIN HEX LOCK NUT

THREAD SPECIFICATION	GRADE		
	304 (A2)	316 (A4)	HT 88
IFI145			
UNC (inch)		1/4	
	5/16	5/16	
	3/8	3/8	
	1/2	1/2	
		5/8	
		3/4	
		7/8	
		1	
UNF (inch)		1/4	
		5/16	
		3/8	
		1/2	
		5/8	
		3/4	
		1	
METRIC (mm)	M3		
	M4	M4	
	M5	M5	
	M6	M6	
	M8	M8	
	M10	M10	
	M12	M12	
	M16	M14	
	M20	M16	
		M20	
		M24	

WING NUTS

THREAD SPECIFICATION	GRADE	
	304 (A2)	316 (A4)
UNC (inch)	10-24	10-24
	1/4	1/4
	5/16	5/16
	3/8	3/8
	1/2	1/2
		5/8
	3/4	
	1/2	1/2
METRIC (mm)	M3	M3
	M4	M4
	M5	M5
	M6	M6
	M8	M8
	M10	M10
	M12	M12
	M16	M16

THREADED ROD (3ft, 1m, 3m LENGTHS)

THREAD SPECIFICATION		GRADE				
		304 (A2)	316 (A4)	316 (A4-80)	HT 88	2507
IFI 136C						
UNC (inch)	1/8		•			
	3/16		•			
	1/4	•	•			
	5/16	•	•			
	3/8	•	•			
	7/16		•			
	1/2	•	•			
	9/16		•			
	5/8	•	•			
	3/4	•	•			
	7/8	•	•			
	1	•	•			
	1-1/8		•			
	1-1/4		•			
UNF (inch)	1/4		•			
	5/16		•			
	3/8		•			
	1/2		•			
AS 3501						
BSW (inch)	1/2	•	•			
BSF (inch)	1/4		•			
	5/16		•			
	3/8		•			
DIN 975						
METRIC (mm)	M3		•			
	M4	•	•			
	M5	•	•		•	
	M6	•	•	•	•	
	M8	•	•	•	•	
	M10*	•	•	•	•	•
	M12*	•	•	•	•	•
	M14		•		•	
	M16	•	•	•	•	•
	M18		•		•	
	M20	•	•	•	•	•
	M22		•		•	
	M24	•	•	•	•	
	M27		•		•	
	M30	•	•	•	•	
	M33		•		•	
	M36	•	•	•	•	
	M42		•	•		
	M48		•	•		
	M64		•			
*AVAILABLE IN METRIC FINE FOR 316 A4						

BUTTON HEAD SOCKET SCREWS

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
IFI 136C				
UNC (inch)	6-32	1/4		
	6-32	3/8		
	6-32	1/2		
	8-32	1/4		
	8-32	3/8		
	8-32	1/2		
	8-32	3/4		
	8-32	1		
	10-24	3/8		
	10-24	1/2		
	10-24	5/8		
	10-24	3/4		
	10-24	1		
	10-24	1-1/4		
	1/4	3/8		
	1/4	1/2		
	1/4	5/8		
	1/4	3/4		
	1/4	1		
	1/4	1-1/4		
	1/4	1-1/2		
	1/4	2		
	5/16	5/8		
	5/16	3/4		
	5/16	1		
	5/16	1-1/4		
	5/16	1-1/2		
	5/16	2		
	3/8	1		
ISO 7380				
METRIC (mm)	M3	4	M3	5
	M3	5	M3	6
	M3	6	M3	8
	M3	8	M3	10
	M3	10	M3	12
	M3	12	M3	16
	M3	16	M3	20
	M3	20	M3	25
	M3	25	M3	30
	M3	30	M4	6
	M3	40	M4	8
	M3	50	M4	10
	M4	4	M4	12
	M4	5	M4	16
	M4	6	M4	20
	M4	8	M4	25
	M4	10	M4	30
	M4	12	M4	35
	M4	16	M4	40

This table continues on next page.

BUTTON HEAD SOCKET SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
ISO 7380				
METRIC (mm)	M4	20	M5	8
	M4	25	M5	10
	M4	30	M5	12
	M4	35	M5	16
	M4	40	M5	20
	M4	45	M5	25
	M4	50	M5	30
	M5	6	M5	35
	M5	8	M5	40
	M5	10	M5	45
	M5	12	M5	50
	M5	16	M5	60
	M5	20	M6	8
	M5	25	M6	10
	M5	30	M6	12
	M5	35	M6	16
	M5	40	M6	20
	M5	45	M6	25
	M5	50	M6	30
	M5	55	M6	35
	M5	60	M6	40
	M6	8	M6	50
	M6	10	M6	60
	M6	12	M8	10
	M6	16	M8	12
	M6	20	M8	16
	M6	25	M8	20
	M6	30	M8	25
	M6	35	M8	30
	M6	40	M8	35
	M6	45	M8	40
	M6	50	M8	50
	M6	55	M8	60
	M6	60	M10	16
	M6	80	M10	20
	M8	10	M10	25
	M8	12	M10	30
	M8	16	M10	35
	M8	20	M10	40
	M8	25	M10	50
	M8	30	M10	60
	M8	35	M12	20
	M8	40	M12	25
	M8	45	M12	30
	M8	50	M12	35
	M8	55	M12	40
	M8	60	M12	50
	M8	70	M12	60
	M8	80		
	M8	90		

This table continues on next page.

BUTTON HEAD SOCKET SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
ISO 7380				
METRIC (mm)	M8	100		
	M10	16		
	M10	20		
	M10	25		
	M10	30		
	M10	35		
	M10	40		
	M10	45		
	M10	50		
	M10	55		
	M10	60		
	M10	70		
	M10	80		
	M10	90		
	M10	100		
	M12	16		
	M12	20		
	M12	25		
	M12	30		
	M12	35		
	M12	40		
	M12	50		
	M12	60		
	M12	70		
	M12	80		
	M12	90		
	M12	100		

CHEESE HEAD SCREW

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
SLOT HEAD STYLE				
METRIC (mm)	M3	6	M3	6
	M3	8	M3	8
	M3	10	M3	10
	M3	12	M3	12
	M3	16	M3	16
	M3	20	M3	20
	M3	25	M3	25
	M3	30	M3	35
	M3	40	M4	6
	M3	50	M4	8
	M4	6	M4	10
	M4	8	M4	12
	M4	10	M4	16
	M4	12	M4	20
	M4	16	M4	25
	M4	20	M4	30
	M4	25	M4	40
	M4	30	M4	50
	M4	40	M5	10
	M4	50	M5	12
	M5	6	M5	16
	M5	8	M5	20
	M5	10	M5	25
	M5	12	M5	30
	M5	16	M5	40
	M5	20	M5	50
	M5	25	M5	60
	M5	30	M5	70
	M5	35	M6	10
	M5	40	M6	12
	M5	50	M6	16
	M5	60	M6	20
	M5	70	M6	25
	M6	10	M6	30
	M6	12	M6	35
	M6	16	M6	40
	M6	20	M6	50
	M6	25	M6	60
	M6	30	M6	70
	M6	35		
	M6	40		
	M6	50		
	M6	60		
	M6	70		

COUNTERSUNK FLAT SOCKET SCREW

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		HT 88	
IFI 136C						
UNC (inch)	4-40	1/4				
	4-40	3/8				
	6-32	3/8				
	6-32	1/2				
	8-32	3/4				
	10-24	3/8				
	10-24	1/2				
	10-24	5/8				
	10-24	3/4				
	10-24	1				
	1/4	3/8				
	1/4	1/2				
	1/4	5/8				
	1/4	3/4				
	1/4	1				
	1/4	1-1/4				
	1/4	1-1/2				
	1/4	2				
METRIC (mm)	M3	5	M3	6	M3	6
	M3	6	M3	8	M3	8
	M3	8	M3	10	M3	10
	M3	10	M3	12	M3	12
	M3	12	M3	16	M3	16
	M3	16	M3	20	M3	20
	M3	20	M3	25	M4	8
	M3	25	M3	30	M4	10
	M3	30	M3	40	M4	12
	M3	35	M4	6	M4	14
	M3	40	M4	8	M4	16
	M3	45	M4	10	M4	20
	M3	50	M4	12	M4	25
	M4	6	M4	16	M4	30
	M4	8	M4	20	M5	8
	M4	10	M4	25	M5	10
	M4	12	M4	30	M5	12
	M4	16	M4	35	M5	16
	M4	20	M4	40	M5	20
	M4	25	M4	45	M5	25
	M4	30	M4	50	M5	30
	M4	35	M5	8	M5	35
	M4	40	M5	10	M6	10
	M4	45	M5	12	M6	12
	M4	50	M5	16	M6	16
	M4	60	M5	20	M6	20
	M5	6	M5	25	M6	25
	M5	8	M5	30	M6	30
	M5	10	M5	35	M6	40
	M5	12	M5	40	M6	50

This table continues on next page.

COUNTERSUNK FLAT SOCKET SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		HT 88	
IFI 136C						
METRIC (mm)	M5	16	M5	45	M6	60
	M5	20	M5	50	M8	12
	M5	25	M5	60	M8	14
	M5	30	M6	8	M8	16
	M5	35	M6	10	M8	20
	M5	40	M6	12	M8	25
	M5	45	M6	16	M8	30
	M5	50	M6	20	M8	35
	M5	60	M6	25	M8	40
	M5	80	M6	30	M8	50
	M6	8	M6	35	M8	60
	M6	10	M6	40	M8	70
	M6	12	M6	50	M10	20
	M6	16	M6	60	M10	25
	M6	20	M6	70	M10	30
	M6	25	M6	80	M10	35
	M6	30	M8	16	M10	40
	M6	35	M8	20	M10	45
	M6	40	M8	25	M10	50
	M6	45	M8	30	M12	30
	M6	50	M8	35	M12	35
	M6	60	M8	40	M12	40
	M6	70	M8	45	M12	45
	M6	80	M8	50	M12	50
	M6	90	M8	55	M12	55
	M6	100	M8	60	M12	60
	M8	12	M8	70	M12	70
	M8	16	M8	75	M12	100
	M8	20	M8	80	M12	120
	M8	25	M8	90	M16	30
	M8	30	M8	100	M16	40
	M8	35	M10	16	M16	50
	M8	40	M10	20	M16	60
	M8	45	M10	25	M16	70
	M8	50	M10	30	M16	80
	M8	55	M10	35	M16	100
	M8	60	M10	40		
	M8	70	M10	45		
	M8	75	M10	50		
	M8	80	M10	60		
	M8	90	M10	70		
	M8	100	M10	80		
	M8	120	M10	90		
	M10	12	M10	100		
	M10	20	M12	25		
	M10	25	M12	30		
	M10	30	M12	35		
	M10	35	M12	40		
	M10	40	M12	45		

This table continues on next page.

COUNTERSUNK FLAT SOCKET SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		HT 88	
IFI 136C						
METRIC (mm)	M10	45	M12	50		
	M10	50	M12	60		
	M10	60	M12	80		
	M10	70	M12	90		
	M10	80	M12	100		
	M10	90	M14	40		
	M10	100	M16	30		
	M10	120	M16	35		
	M10	130	M16	40		
	M10	150	M16	45		
	M12	25	M16	60		
	M12	30	M16	70		
	M12	35	M16	80		
	M12	40	M16	90		
	M12	45	M16	100		
	M12	50	M16	120		
	M12	60	M20	40		
	M12	65	M20	50		
	M12	70	M20	60		
	M12	80	M20	70		
	M12	90	M20	80		
	M12	100	M20	90		
	M12	120	M20	100		
	M12	130				
	M12	150				
	M16	25				
	M16	30				
	M16	40				
	M16	50				
	M16	60				
	M16	70				
	M16	80				
	M16	90				
	M16	100				
	M16	120				
	M16	150				
	M20	40				
	M20	50				
	M20	60				
	M20	70				
	M20	80				
	M20	90				
	M20	100				
	M20	120				
	M20	150				

COUNTERSUNK WOOD SCREW

THREAD SPECIFICATION	GRADE	
	304 (A2)	
PHILLIPS HEAD STYLE		
	#6	3/4
	#6	1
	#8	3/4
	#8	1
	#8	1-1/4
	#8	1-1/2
	#10	1-1/2
	#10	1-3/4
	#12	1-1/4
	#12	1-1/2
	#12	2
	#12	2-1/2
	#14	2-1/2
	#14	3

FLANGED HEX HEAD SCREW JMAX SDS

THREAD SPECIFICATION	GRADE	
	316 (A4)	
PHILLIPS HEAD STYLE		
ANSI B18.6.4	#14-10	30
	#14-10	65

GRUB SOCKET SCREW

THREAD SPECIFICATION	GRADE	
	304 (A2)	
UNC (inch)	4-40	1/8
	4-40	14
	4-40	3/8
	5-40	1/8
	5-40	3/16
	5-40	1/4
	5-40	5/16
	5-40	3/8
	5-40	1/2
	6-32	1/8
	6-32	3/16
	6-32	1/4
	6-32	1/2
	8-32	1/2
	8-32	5/8
	8-32	3/4
	10-24	3/16
	10-24	5/16
	10-24	1/2
	10-24	5/8
	10-24	3/4
	10-24	1
	1/4	3/16
	5/16	5/8
	5/16	1
	3/8	1-1/4
	1/2	1/2
	1/2	5/8
METRIC (mm)	M3	3
	M3	4
	M3	5
	M3	6
	M3	8
	M3	10
	M3	12
	M3	16
	M3	20
	M4	4
	M4	5
	M4	6
	M4	8
	M4	10
	M4	12
	M4	16
	M4	20
	M5	5
	M5	6
	M5	8

THREAD SPECIFICATION	GRADE	
	304 (A2)	
METRIC (mm)	M5	10
	M5	12
	M5	16
	M5	20
	M5	25
	M5	30
	M6	6
	M6	8
	M6	10
	M6	12
	M6	16
	M6	20
	M6	25
	M6	30
	M8	8
	M8	10
	M8	12
	M8	16
	M8	20
	M8	25
	M8	30
	M8	35
	M8	45
	M10	10
	M10	16
	M10	20
	M10	25
	M10	30
	M10	50
	M12	12
	M12	16
	M12	20
	M12	25
	M12	35
	M12	45
	M12	50
	M16	35
	M16	50

HEX HEAD SCREWS

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
UNC (inch)	8/32	1/2								
	8/32	1								
	8/32	1-1/2								
	1/4	3/8								
	1/4	1/2								
	1/4	5/8								
	1/4	3/4								
	1/4	7/8								
	1/4	1								
	1/4	1-1/4								
	1/4	1-1/2								
	1/4	1-3/4								
	1/4	2								
	1/4	2-1/2								
	1/4	3								
	1/4	4								
	5/16	1/2	5/16	1/2						
	5/16	5/8	5/16	5/8						
	5/16	3/4	5/16	3/4						
	5/16	1	5/16	1						
	5/16	1-1/4	5/16	1-1/4						
	5/16	1-1/2	5/16	1-1/2						
	5/16	1-3/4	5/16	1-3/4						
	5/16	2								
	5/16	2-1/4								
	5/16	2-1/2	5/16	2-1/2						
	5/16	3	5/16	3						
	5/16	4	5/16	4						
	3/8	1/2	3/8	1/2						
	3/8	5/8								
	3/8	3/4	3/8	3/4						
	3/8	1	3/8	1						
	3/8	1-1/4	3/8	1-1/4						
	3/8	1-1/2	3/8	1-1/2						
	3/8	1-3/4	3/8	1-3/4						
	3/8	2	3/8	2						
	3/8	2-1/4								
	3/8	2-1/2	3/8	2-1/2						
	3/8	3	3/8	3						
	3/8	3-1/2								
	3/8	4	3/8	4						

This table continues on next page.

HEX HEAD SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
UNC (inch)			1/2	3/4						
	1/2	1	1/2	1						
	1/2	1-1/4	1/2	1-1/4						
	1/2	1-1/2	1/2	1-1/2						
	1/2	1-3/4	1/2	1-3/4						
	1/2	2	1/2	2						
	1/2	2-1/2	1/2	2-1/2						
	1/2	3	1/2	3						
	1/2	3-1/2								
	1/2	4	1/2	4						
	5/8	1	5/8	1						
	5/8	1-1/4	5/8	1-1/4						
	5/8	1-1/2	5/8	1-1/2						
	5/8	1-3/4	5/8	1-3/4						
	5/8	2	5/8	2						
	5/8	2-1/4								
	5/8	2-1/2	5/8	2-1/2						
	5/8	3	5/8	3						
	5/8	3-1/2	5/8	3-1/2						
	5/8	4	5/8	4						
	3/4	1-1/4	3/4	1-1/4						
	3/4	1-1/2	3/4	1-1/2						
	3/4	1-3/4	3/4	1-3/4						
	3/4	2	3/4	2						
	3/4	2-1/4	3/4	2-1/4						
	3/4	2-1/2	3/4	2-1/2						
	3/4	3	3/4	3						
	3/4	3-1/2	3/4	3-1/2						
	3/4	4	3/4	4						
			7/8	2						
			7/8	2-1/2						
			7/8	3						
			1	2						
			1	2-1/2						
			1	3						
			1	3-1/2						
UNF (inch)	10/32	1/2								
	10/32	5/8								
	10/32	3/4								
	10/32	1								
	10/32	1-1/4								
	10/32	1-1/2								
	10/32	2								

This table continues on next page.

HEX HEAD SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
UNF (inch)	1/4	1/2								
	1/4	5/8								
	1/4	3/4								
	1/4	1								
	5/16	5/8								
	5/16	3/4								
	5/16	1								
	5/16	1-1/4								
	3/8	3/4								
	3/8	1								
	3/8	1-1/4								
	7/16	1								
	7/16	1-1/4								
	7/16	1-1/2								
	1/2	1								
	1/2	1-1/4								
	1/2	1-1/2								
	5/8	1-1/4								
	5/8	1-1/2								
	5/8	2								
BSW										
	3/16	3/8								
	3/16	1/2	3/16	1/2						
	3/16	5/8	3/16	5/8						
	3/16	3/4	3/16	3/4						
	3/16	1	3/16	1						
	3/16	1-1/4	3/16	1-1/4						
	3/16	1-1/2	3/16	1-1/2						
	3/16	2								
			3/16	2-1/2						
			3/16	3						
			1/2	3/4						
			1/2	1						
			1/2	1-1/4						
	1/2	1-1/2	1/2	1-1/2						
			1/2	2						
			1/2	2-1/2						
			1/2	3						
			1/2	3-1/2						
DIN 933										
METRIC (mm)	M3	6	M4	8	M4	6	M4	6	M6	12
	M3	8	M4	10	M4	8	M4	8	M6	14
	M3	10	M4	12	M4	10	M4	10	M6	16

This table continues on next page.

HEX HEAD SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
DIN 933										
METRIC (mm)	M3	12	M4	16	M4	12	M4	12	M6	20
	M3	16	M4	20	M4	14	M4	14	M6	22
	M3	20	M4	25	M4	16	M4	16	M6	25
	M3	25	M5	10	M4	20	M4	20	M6	30
	M3	30	M5	12	M4	25	M4	25	M6	35
	M4	6	M5	16	M4	30	M4	30	M8	16
	M4	8	M5	20	M5	10	M5	10	M8	20
	M4	10	M5	25	M5	12	M5	12	M8	22
	M4	12	M5	30	M5	14	M5	14	M8	25
	M4	16	M5	35	M5	16	M5	16	M8	30
	M4	20	M5	40	M5	20	M5	20	M8	35
	M4	25	M5	45	M5	25	M5	25	M8	40
	M4	30	M5	50	M5	30	M5	30	M8	45
	M4	35	M5	60	M5	35	M5	35	M8	50
	M4	40	M6	10	M5	40	M5	40	M8	55
	M4	50	M6	12	M5	45	M5	45	M8	60
	M5	8	M6	16	M5	50	M5	50	M8	65
	M5	10	M6	20	M6	10	M6	10	M8	70
	M5	12	M6	25	M6	12	M6	12	M8	80
	M5	16	M6	30	M6	14	M6	14	M10	20
	M5	20	M6	35	M6	16	M6	16	M10	25
	M5	25	M6	40	M6	18	M6	20	M10	30
	M5	30	M6	45	M6	20	M6	22	M10	35
	M5	35	M6	50	M6	22	M6	25	M10	40
	M5	40	M6	55	M6	25	M6	30	M10	100
	M5	45	M6	60	M6	30	M6	35	M10	110
	M5	50	M6	65	M6	35	M6	40	M10	120
	M5	55	M6	70	M6	40	M6	45	M10	130
	M6	8	M6	75	M6	45	M6	50	M10	140
	M6	10	M6	80	M6	50	M6	60	M10	150
	M6	12	M6	90	M6	60	M6	70	M10	160
	M6	16	M6	100	M6	70	M6	80	M12	20
	M6	20	M8	12	M6	80	M8	10	M12	25
	M6	25	M8	16	M8	10	M8	12	M12	30
	M6	30	M8	20	M8	12	M8	14	M12	35
	M6	35	M8	25	M8	14	M8	16	M12	40
	M6	40	M8	30	M8	16	M8	20	M12	50
	M6	45	M8	35	M8	20	M8	22	M12	90
	M6	50	M8	40	M8	22	M8	25	M12	110
	M6	55	M8	45	M8	25	M8	30	M12	120
	M6	60	M8	50	M8	30	M8	35	M12	130
	M6	65	M8	55	M8	35	M8	40	M12	140
	M6	70	M8	60	M8	40	M8	45	M12	155

This table continues on next page.

HEX HEAD SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
DIN 933										
METRIC (mm)	M6	75	M8	65	M8	45	M8	50	M12	165
	M6	80	M8	70	M8	50	M8	60	M12	175
	M6	90	M8	75	M8	60	M8	70	M14	45
	M6	100	M8	80	M8	70	M8	80	M14	50
	M6	110	M8	90	M8	80	M10	12	M14	60
	M6	120	M8	100	M10	12	M10	16	M16	25
	M6	140	M8	110	M10	16	M10	20	M16	30
	M8	12	M8	120	M10	20	M10	25	M16	35
	M8	16	M8	130	M10	25	M10	30	M16	40
	M8	20	M8	140	M10	30	M10	35	M16	45
	M8	25	M8	150	M10	35	M10	40	M16	50
	M8	30	M10	16	M10	40	M10	45	M16	55
	M8	35	M10	20	M10	45	M10	50	M16	60
	M8	40	M10	25	M10	50	M10	60	M20	40
	M8	45	M10	30	M10	55	M10	70	M20	50
	M8	50	M10	35	M10	60	M10	80	M20	60
	M8	55	M10	40	M10	65	M10	90	M20	70
	M8	60	M10	45	M10	70	M10	100	M20	75
	M8	65	M10	50	M10	75	M10	110	M20	80
	M8	70	M10	55	M10	80	M10	120		
	M8	75	M10	60	M10	90	M10	130		
	M8	80	M10	65	M10	100	M12	20		
	M8	90	M10	70	M10	110	M12	25		
	M8	100	M10	75	M10	120	M12	30		
	M8	110	M10	80	M10	130	M12	32		
	M8	120	M10	90	M12	16	M12	35		
	M8	130	M10	100	M12	20	M12	40		
	M8	140	M10	110	M12	25	M12	45		
	M8	150	M10	120	M12	30	M12	50		
	M10	16	M10	130	M12	32	M12	55		
	M10	20	M10	140	M12	35	M12	60		
	M10	25	M10	150	M12	40	M12	65		
	M10	30	M12	20	M12	45	M12	70		
	M10	35	M12	25	M12	50	M12	80		
	M10	40	M12	30	M12	55	M12	90		
	M10	45	M12	35	M12	60	M12	100		
	M10	50	M12	40	M12	65	M12	120		
	M10	55	M12	45	M12	70	M14	30		
	M10	60	M12	50	M12	80	M14	40		
	M10	65	M12	55	M12	90	M14	50		
	M10	70	M12	60	M12	100	M14	60		
	M10	75	M12	65	M12	120	M14	70		
	M10	80	M12	70	M14	30	M16	25		

This table continues on next page.

HEX HEAD SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
DIN 933										
METRIC (mm)	M10	90	M12	75	M14	40	M16	30		
	M10	100	M12	80	M14	50	M16	35		
	M10	110	M12	90	M14	60	M16	40		
	M10	120	M12	100	M14	70	M16	45		
	M10	130	M12	110	M16	20	M16	50		
	M10	140	M12	120	M16	25	M16	60		
	M10	150	M12	130	M16	30	M16	70		
	M12	20	M12	140	M16	35	M16	80		
	M12	25	M12	150	M16	40	M16	120		
	M12	30	M14	30	M16	45	M16	160		
	M12	35	M14	40	M16	50	M16	180		
	M12	40	M14	45	M16	60	M18	40		
	M12	45	M14	50	M16	70	M18	50		
	M12	50	M14	60	M16	80	M18	60		
	M12	55	M14	65	M16	120	M18	70		
	M12	60	M14	70	M16	160	M18	80		
	M12	65	M14	80	M16	180	M20	30		
	M12	70	M14	90	M18	40	M20	35		
	M12	75	M14	100	M18	50	M20	40		
	M12	80	M16	25	M18	60	M20	45		
	M12	85	M16	30	M18	70	M20	50		
	M12	90	M16	35	M18	80	M20	55		
	M12	100	M16	40	M20	25	M20	60		
	M12	110	M16	45	M20	30	M20	65		
	M12	120	M16	50	M20	35	M20	70		
	M12	130	M16	55	M20	40	M20	75		
	M12	140	M16	60	M20	45	M20	80		
	M12	150	M16	65	M20	50	M20	100		
	M14	25	M16	70	M20	55	M20	120		
	M14	35	M16	75	M20	60	M20	130		
	M14	40	M16	80	M20	65	M20	140		
	M14	55	M16	90	M20	70	M20	150		
	M14	60	M16	100	M20	75	M24	40		
	M14	70	M16	110	M20	80	M24	45		
	M16	25	M16	120	M20	100	M24	50		
	M16	30	M16	130	M20	120	M24	60		
	M16	35	M16	140	M20	130	M24	65		
	M16	40	M16	150	M20	140	M24	70		
	M16	45	M20	40	M20	150	M24	75		
	M16	50	M20	45	M24	20	M24	80		
	M16	55	M20	50	M24	35	M24	90		

This table continues on next page.

HEX HEAD SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
DIN 933										
METRIC (mm)	M16	60	M20	55	M24	40	M24	100		
	M16	65	M20	60	M24	45	M24	110		
	M16	70	M20	65	M24	50	M24	120		
	M16	75	M20	70	M24	55	M24	140		
	M16	80	M20	75	M24	60	M27	50		
	M16	90	M20	80	M24	65	M27	60		
	M16	100	M20	90	M24	70	M27	70		
	M16	110	M20	100	M24	75	M27	80		
	M16	120	M20	110	M24	80	M27	90		
	M16	130	M20	120	M24	90	M27	100		
	M16	140	M20	130	M24	100	M27	120		
	M16	150	M20	140	M24	110	M27	130		
	M18	40	M20	150	M24	120	M27	140		
	M18	50	M22	50	M24	140	M27	150		
	M18	60	M22	60	M27	50	M27	160		
	M18	70	M22	70	M27	60	M30	35		
	M18	80	M22	75	M27	70	M30	42		
	M18	90	M22	80	M27	80	M30	45		
	M18	100	M24	50	M27	90	M30	55		
	M20	30	M24	60	M27	100	M30	60		
	M20	40	M24	65	M27	120	M30	70		
	M20	45	M24	70	M27	130	M30	80		
	M20	50	M24	80	M27	140	M30	90		
	M20	55	M24	90	M27	150	M30	100		
	M20	60	M24	100	M27	160	M30	130		
	M20	65	M27	60	M30	35	M30	140		
	M20	70	M27	80	M30	42	M36	80		
	M20	75	M30	90	M30	45	M36	90		
	M20	80			M30	55	M36	100		
	M20	90			M30	60	M36	120		
	M20	100			M30	65	M36	130		
	M20	110			M30	70	M36	140		
	M20	120			M30	80	M36	150		
	M20	130			M30	85	M36	160		
	M20	140			M30	90	M36	200		
	M20	150			M30	100				
	M24	50			M30	130				
	M24	55			M30	140				
	M24	60			M36	60				
	M24	65			M36	70				
					M36	80				
					M36	90				
					M36	100				
					M36	120				
					M36	130				
					M36	140				
					M36	150				
					M36	160				
					M36	200				

METRIC SECURITY SCREWS

THREAD SPECIFICATION	GRADE	
	304 (A2)	
BUTTON HEAD STYLE		
POST TORX		
METRIC (mm)	M3	6
	M3	8
	M3	10
	M3	12
	M3	16
	M3	20
	M4	6
	M4	8
	M4	10
	M4	12
	M4	16
	M4	20
	M4	25
	M4	30
	M4	40
	M4	50
	M4	65
	M5	8
	M5	10
	M5	12
	M5	16
	M5	20
	M5	25
	M5	30
	M5	40
	M5	50
	M5	60
	M6	10
	M6	12
	M6	16
	M6	20
	M6	25
	M6	30
	M6	35
	M6	40
	M6	45
	M6	50
	M6	60
	M8	16
	M8	20
	M8	25
	M8	30
	M8	35
	M8	40
	M8	50

THREAD SPECIFICATION	GRADE	
	304 (A2)	
BUTTON HEAD STYLE		
POST TORX		
METRIC (mm)	M8	60
	M8	80
	M10	20
	M10	25
	M10	30
	M10	35
	M10	40
POST TORX		
METRIC (mm)	M4	6
	M4	8
	M4	10
	M4	12
	M4	16
	M4	20
	M4	25
	M4	30
	M5	10
	M5	12
	M5	16
	M5	20
	M5	25
	M5	30
	M6	10
	M6	12
	M6	16
	M6	20
	M6	25
	M6	30
	M6	35
	M6	40
	M6	45
	M6	50
	M8	16
	M8	20
	M8	25
	M8	30
	M8	35
	M8	40
	M8	50
	M8	60
COUNTERSUNK HEAD STYLE		
EYE DRIVE		
METRIC (mm)	M4	10
	M4	12
	M4	16

This table continues on next page.

METRIC SECURITY SCREWS (CONTINUED)

THREAD SPECIFICATION	GRADE	
	304 (A2)	
COUNTERSUNK HEAD STYLE		
EYE DRIVE		
METRIC (mm)	M4	20
	M4	25
	M5	12
	M5	16
	M5	20
	M5	25
	M5	30
	M6	12
	M6	20
	M6	25
	M6	30
	M6	40
POST HEX		
METRIC (mm)	M4	8
	M4	10
	M4	12
	M4	16
	M4	20
	M4	25
	M5	10
	M5	12
	M5	16
	M5	20
	M5	25
	M5	30
	M6	10
	M6	12
	M6	16
	M6	20
	M6	25
	M6	30
	M6	40
	M6	45
	M6	50
	M8	16
	M8	20
	M8	25
	M8	30
	M8	40
POST TORX		
METRIC (mm)	M3	6
	M3	8
	M3	10
	M3	12
	M3	16

THREAD SPECIFICATION	GRADE	
	304 (A2)	
POST TORX		
METRIC (mm)	M3	20
	M4	6
	M4	8
	M4	10
	M4	12
	M4	16
	M4	20
	M4	25
	M4	30
	M4	40
	M4	50
	M4	65
	M4	70
	M5	8
	M5	10
	M5	12
	M5	16
	M5	20
	M5	25
	M5	30
	M5	40
	M5	50
	M5	60
	M6	10
	M6	12
	M6	16
	M6	20
	M6	25
	M6	30
	M6	35
	M6	40
	M6	45
	M6	50
	M6	60
	M8	16
	M8	20
	M8	25
	M8	30
	M8	35
	M8	40
	M8	60
	M8	80
PAN HEAD STYLE		
EYE DRIVE		
METRIC (mm)	M4	10
	M4	12

This table continues on next page.

METRIC SECURITY SCREWS (CONTINUED)

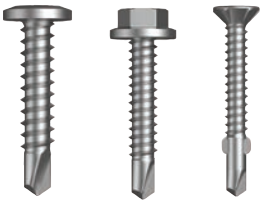
THREAD SPECIFICATION	GRADE	
	304 (A2)	
PAN HEAD STYLE		
EYE DRIVE		
METRIC (mm)	M4	16
	M4	20
	M4	25
	M5	12
	M5	16
	M5	20
	M5	25
	M5	30
	M6	12
	M6	16
	M6	20
	M6	25
	M6	30
	M6	40
BUTTON HEAD STYLE		
POST TORX		
METRIC (mm)	M5	10
	M6	12
	M6	25
	M8	16
	M8	30
	M10	20
	M10	28

MUSHROOM HEAD SCREW

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
PHILLIPS HEAD STYLE				
BSW				
	3/16	1/2		
	3/16	5/8		
	3/16	3/4		
	3/16	1		
	3/16	1-1/4		
	3/16	1-1/2		
	1/4	1/2		
	1/4	3/4		
	1/4	1		
METRIC (mm)	M5	20		
	M5	25		
	M6	25		
	M6	30		
	M6	40		

DRILLX®

BiHFiX™



Bi-Metallic

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.

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.

Bolt Tension | Anti-Vibration | Product Reliability | Traceability

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HOBSON ENGINEERING

PAN HEAD SCREW

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
PHILLIPS HEAD STYLE				
UNC (inch)				
	4-40	3/16		
	4-40	1/4		
	4-40	5/16		
	4-40	3/8		
	4-40	1/2		
	4-40	5/8		
	4-40	3/4		
	4-40	1		
	6-32	1/4		
	6-32	5/16		
	6-32	3/8		
	6-32	1/2		
	6-32	5/8		
	6-32	3/4		
	6-32	1		
	6-32	1-1/4		
	6-32	1-1/2		
	6-32	2		
	8-32	1/4		
	8-32	3/8		
	8-32	1/2		
	8-32	5/8		
	8-32	3/4		
	8-32	1		
	8-32	1-1/4		
	8-32	1-1/2		
	8-32	1-3/4		
	8-32	2		
UNF (inch)	10-32	3/8		
	10-32	1/2		
	10-32	3/4		
	10-32	1		
	10-32	1-1/4		
	10-32	1-1/2		
	10-32	2		
BSW	1/8	1/2		
	1/8	3/4		
	1/8	1		
	3/16	1/4	3/16	1/2
	3/16	3/8	3/16	3/4
	3/16	1/2	3/16	1
	3/16	5/8	3/16	1-1/4

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
BSW	3/16	3/4		
	3/16	1		
	3/16	1-1/4		
	3/16	1-1/2		
	3/16	2		
	3/16	2-1/2		
	3/16	3		
	1/4	3/8		
	1/4	1/2		
	1/4	5/8		
	1/4	3/4		
	1/4	1		
	1/4	1-1/4		
	1/4	1-1/2		
	1/4	2		
	1/4	2-1/2		
	1/4	3		
	1/4	3-1/2		
	1/4	4		
	5/16	3/4		
	5/16	1		
	5/16	1-1/2		
	5/16	1-3/4		
	5/16	2		
	5/16	2-1/2		
	5/16	3		
METRIC (mm)	M2.5	5		
	M2.5	6		
	M2.5	8		
	M2.5	10		
	M2.5	12		
	M2.5	16		
	M2.5	20		
	M2.5	25		
	M3	6	M3	6
	M3	8	M3	8
	M3	10	M3	10
	M3	12	M3	12
	M3	16	M3	16
	M3	20	M3	20
	M3	25	M3	25
	M3	30	M4	6
	M3	35	M4	8

This table continues on next page.

PAN HEAD SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
METRIC (mm)	M3	40	M4	10
	M3	50	M4	12
	M4	6	M4	16
	M4	8	M4	20
	M4	10	M4	25
	M4	12	M4	30
	M4	16	M4	50
	M4	20	M5	10
	M4	25	M5	12
	M4	30	M5	16
	M4	35	M5	20
	M4	40	M5	25
	M4	50	M5	30
	M5	8	M5	40
	M5	10	M5	50
	M5	12	M6	12
	M5	16	M6	16
	M5	20	M6	20
	M5	25	M6	25
	M5	30	M6	30
	M5	35	M6	40
	M5	40	M6	50
	M5	50		
	M5	65		
	M5	75		
	M6	8		
	M6	10		
	M6	12		
	M6	16		
	M6	20		
	M6	25		
	M6	30		
	M6	35		
	M6	40		
	M6	50		
	M6	60		
	M6	65		
	M6	75		
	M8	20		
	M8	25		
	M8	30		
	M8	40		
	M8	50		

PHILLIPS/SLOT HEAD COUNTERSUNK SCREW

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
PHILLIPS HEAD STYLE				
UNC (inch)				
	2-56	1/4		
	2-56	3/8		
	2-56	1/2		
	2-56	5/8		
	4-40	1/4		
	4-40	5/16		
	4-40	3/8		
	4-40	1/2		
	4-40	5/8		
	4-40	3/4		
	4-40	1		
	6-32	1/4		
	6-32	5/16		
	6-32	3/8		
	6-32	1/2		
	6-32	5/8		
	6-32	3/4		
	6-32	1		
	6-32	1-1/4		
	6-32	1-1/2		
	6-32	2		
	8-32	1/4		
	8-32	3/8		
	8-32	1/2		
	8-32	5/8		
	8-32	3/4		
	8-32	1		
	8-32	1-1/4		
	8-32	1-1/2		
	8-32	2		
	12-24	1/2		
UNF (inch)	10-32	3/8		
	10-32	1/2		
	10-32	5/8		
	10-32	3/4		
	10-32	1		
	10-32	1-1/4		
	10-32	1-1/2		
	10-32	2		
	1/8	1/4	3/16	3/8
BSW	5/32	1/4	3/16	1/2
	5/32	3/8	3/16	3/4
	5/32	1/2	3/16	1

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
PHILLIPS HEAD STYLE				
UNC (inch)				
BSW	5/32	1	3/16	1-1/4
	3/16	1/4	3/16	1-1/2
	3/16	3/8	3/16	2
	3/16	1/2	3/16	2-1/2
	3/16	5/8	3/16	3
	3/16	3/4	1/4	3/4
	3/16	1	1/4	1
	3/16	1-1/4	1/4	1-1/4
	3/16	1-1/2	1/4	1-1/2
	3/16	1-3/4	1/4	2
	3/16	2		
	3/16	2-1/2		
	3/16	3		
	1/4	1/2		
	1/4	5/8		
	1/4	3/4		
	1/4	1		
	1/4	1-1/4		
	1/4	1-1/2		
	1/4	1-3/4		
	1/4	2		
	1/4	2-1/2		
	1/4	3		
	1/4	4		
	5/16	3/4		
	5/16	1		
	5/16	1-1/4		
	5/16	1-1/2		
	5/16	2		
	5/16	2-1/2		
	5/16	3		
METRIC (mm)	M2.5	5	M3	12
	M2.5	6	M3	16
	M2.5	8	M3	20
	M2.5	10	M3	25
	M2.5	12	M4	8
	M2.5	16	M4	10
	M2.5	20	M4	12
	M3	5	M4	16
	M3	6	M4	20
	M3	8	M4	25
	M3	10	M4	30

This table continues on next page.

PHILLIPS/SLOT HEAD COUNTERSUNK SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
PHILLIPS HEAD STYLE				
METRIC (mm)	M3	12	M4	40
	M3	16	M5	10
	M3	20	M5	12
	M3	25	M5	16
	M3	30	M5	20
	M3	40	M5	25
	M3	50	M5	30
	M4	6	M5	40
	M4	8	M5	50
	M4	10	M6	12
	M4	12	M6	16
	M4	16	M6	20
	M4	20	M6	25
	M4	25	M6	30
	M4	30	M6	35
	M4	35	M6	40
	M4	40	M6	50
	M4	50	M8	16
	M5	8	M8	20
	M5	10	M8	25
	M5	12	M8	30
	M5	16	M8	40
	M5	20	M8	50
	M5	25	M8	60
	M5	30	M10	25
	M5	35	M10	30
	M5	40		
	M5	50		
	M5	65		
	M5	75		
	M6	10		
	M6	12		
	M6	16		
	M6	20		
	M6	25		
	M6	30		
	M6	35		
	M6	40		
	M6	45		
	M6	50		
	M6	60		
	M6	65		
	M6	75		

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
PHILLIPS HEAD STYLE				
METRIC (mm)	M8	16		
	M8	20		
	M8	25		
	M8	30		
	M8	40		
	M8	50		
SLOT HEAD STYLE				
METRIC (mm)	M3	8	M3	8
	M3	10	M3	10
	M3	12	M3	12
	M3	16	M3	16
	M3	20	M3	20
	M3	25	M3	25
	M3	30	M4	8
	M3	40	M4	10
	M4	8	M4	12
	M4	10	M4	16
	M4	12	M4	20
	M4	16	M4	25
	M4	20	M4	30
	M4	25	M4	40
	M4	30	M4	50
	M4	40	M5	10
	M4	50	M5	12
	M5	10	M5	16
	M5	12	M5	20
	M5	16	M5	25
	M5	20	M5	30
	M5	25	M5	40
	M5	30	M5	45
	M5	35	M5	50
	M5	40	M5	60
	M5	45	M5	65
	M5	50	M5	70
	M5	60	M6	10
	M5	65	M6	12
	M5	70	M6	16
	M6	10	M6	20
	M6	12	M6	25
	M6	16	M6	30
	M6	20	M6	35
	M6	25	M6	40
SLOT HEAD STYLE				
METRIC (mm)				
	M6	30	M6	45
	M6	35	M6	50
	M6	40	M6	60
	M6	45	M6	65
	M6	50	M6	70
	M6	60		
	M6	65		
	M6	70		

ROUND HEAD SCREW

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
SLOT HEAD STYLE				
BSW				
	1/8	1/4	-	-
	1/8	3/8	-	-
	1/8	1/2		
	1/8	5/8		
	1/8	3/4		
	1/8	1		
	1/8	1-1/4		
	1/8	1-1/2		
	1/8	2		
	5/32	1/4		
	5/32	3/8		
	5/32	1/2		
	5/32	5/8		
	5/32	3/4		
	5/32	1		
	5/32	1-1/4		
	5/32	1-1/2		
	5/32	2		
	3/16	1/4	3/16	1/4
	3/16	3/8	3/16	3/8
	3/16	1/2	3/16	1/2
	3/16	5/8	3/16	5/8
	3/16	3/4	3/16	3/4
	3/16	1	3/16	1
	3/16	1-1/4	3/16	1-1/4
	3/16	1-1/2	3/16	1-3/4
	3/16	1-3/4	3/16	2
	3/16	2	3/16	2-1/2
	3/16	2-1/2	3/16	3
	3/16	3	1/4	1/2
	1/4	3/8	1/4	5/8
	1/4	1/2	1/4	3/4
	1/4	5/8	1/4	1
	1/4	3/4	1/4	1-1/4
	1/4	1	1/4	1-1/2
	1/4	1-1/4	1/4	2
	1/4	1-1/2	1/4	2-1/2
	1/4	1-3/4	1/4	3
	1/4	2		
	1/4	2-1/4		
	1/4	2-1/2		
	1/4	3		

SELF TAPPING COUNTERSUNK SCREW

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		410	
PHILLIPS HEAD STYLE						
ANSI B18.6.4						
	#4	3/8	#4	1/4		
	#4	1/2	#4	3/8		
	#4	5/8	#4	1/2		
	#4	3/4	#4	5/8		
	#4	1	#4	3/4		
	#6	1/2	#4	1		
	#6	5/8	#6	1/2		
	#6	3/4	#6	5/8		
	#6	1	#6	3/4		
	#6	1-1/4	#6	1		
	#6	1-1/2	#6	1-1/4		
	#6	1-3/4	#6	1-1/2		
	#6	2	#8	3/8		
	#8	3/8	#8	1/2		
	#8	1/2	#8	5/8		
	#8	5/8	#8	3/4		
	#8	3/4	#8	1		
	#8	1	#8	1-1/4		
	#8	1-1/4	#8	1-1/2		
	#8	1-1/2	#8	1-3/4		
	#8	1-3/4	#8	2		
	#8	2	#10	1/2		
	#8	2-1/2	#10	5/8		
	#8	3	#10	3/4		
	#10	3/8	#10	1		
	#10	1/2	#10	1-1/4		
	#10	5/8	#10	1-1/2		
	#10	3/4	#10	2		
	#10	1	#10	2-1/2		
	#10	1-1/4	#12	3/4		
	#10	1-1/2	#12	1		
	#10	1-3/4	#12	1-1/4		
	#10	2	#12	1-1/2		
	#10	2-1/2	#12	1-3/4		
	#10	3	#12	2		
	#12	1/2	#12	2-1/2		
	#12	5/8	#14	1		
	#12	3/4	#14	1-1/4		
	#12	1	#14	1-1/2		
	#12	1-1/4	#14	2		
	#12	1-1/2				
	#12	1-3/4				
	#12	2				

This table continues on next page.

SELF TAPPING COUNTERSUNK SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		410	
PHILLIPS HEAD STYLE						
ANSI B18.6.4						
	#12	2-1/2				
	#12	3				
	#14	3/4				
	#14	1				
	#14	1-1/4				
	#14	1-1/2				
	#14	1-3/4				
	#14	2				
	#14	2-1/2				
	#14	3				
SQUARE HEAD STYLE						
ANSI B18.6.4						
	#6	1/2				
	#6	5/8				
	#6	3/4				
	#6	1				
	#6	1-1/4				
	#6	1-1/2				
	#8	1/2				
	#8	5/8				
	#8	3/4				
	#8	1				
	#8	1-1/4				
	#8	1-1/2				
	#8	1-3/4				
	#8	2				
	#8	3				
	#10	1/2				
	#10	5/8				
	#10	3/4				
	#10	1				
	#10	1-1/4				
	#10	1-1/2				
	#10	1-3/4				
	#10	2				
UNDERCUT COUNTERSUNK						
PHILLIPS HEAD STYLE						
ANSI B18.6.4						
	#6-20	3/8				
	#8-18	3/8				
	#8-18	1/2				
	#8-18	5/8				
	#8-18	3/4				
	#10-16	3/8				

This table continues on next page.

SELF TAPPING COUNTERSUNK SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		410	
UNDERCUT COUNTERSUNK						
PHILLIPS HEAD STYLE						
ANSI B18.6.4						
	#10-16	1/2			#10-16	1/2
	#10-16	3/4				
	#10-16	1				
	#12-14	1				
	#12-14	1-1/4				
SQUARE HEAD STYLE						
	#8-18	3/8				
	#8-18	1/2				
	#8-18	5/8				
	#8-18	3/4				
	#10-16	1/2				

SELF TAPPING PAN SCREW

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		410	
PHILLIPS HEAD STYLE						
ANSI B18.6.4						
	#4	1/4	#4	1/4	#6	3/4
	#4	3/8	#4	3/8	#6	1
	#4	1/2	#4	1/2	#6	1-1/4
	#4	5/8	#4	5/8	#6	1-3/4
	#4	3/4	#4	3/4	#8	1-3/4
	#4	1	#4	1		
	#6	1/4	#6	3/8		
	#6	3/8	#6	1/2		
	#6	1/2	#6	5/8		
	#6	5/8	#6	3/4		
	#6	3/4	#6	1		
	#6	1	#6	1-1/4		
	#6	1-1/2	#6	1-1/2		
	#6	1-3/4	#8	1/4		
	#6	2	#8	3/8		
	#8	1/4	#8	1/2		
	#8	3/8	#8	5/8		
	#8	1/2	#8	3/4		
	#8	5/8	#8	1		
	#8	3/4	#8	1-1/4		
	#8	1	#8	1-1/2		
	#8	1-1/4	#8	2		
	#8	1-1/2	#10	1/2		

This table continues on next page.

SELF TAPPING PAN SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		410	
PHILLIPS HEAD STYLE						
ANSI B18.6.4						
	#8	1-3/4	#10	5/8		
	#8	2	#10	3/4		
	#8	2-1/2	#10	1		
	#8	3	#10	1-1/4		
	#10	3/8	#10	1-1/2		
	#10	1/2	#10	2		
	#10	5/8	#12	3/4		
	#10	3/4	#12	1		
	#10	1	#12	1-1/4		
	#10	1-1/4	#12	1-1/2		
	#10	1-1/2	#12	2		
	#10	1-3/4	#12	2-1/2		
	#10	2	#14	3/4		
	#10	2-1/2	#14	1		
	#10	3	#14	1-1/2		
	#12	1/2	#14	2		
	#12	5/8	#14	3		
	#12	3/4				
	#12	1				
	#12	1-1/4				
	#12	1-1/2				
	#12	1-3/4				
	#12	2				
	#12	2-1/2				
	#12	3				
	#14	1/2				
	#14	5/8				
	#14	3/4				
	#14	1				
	#14	1-1/4				
	#14	1-1/2				
	#14	1-3/4				
	#14	2				
	#14	2-1/2				
	#14	3				
SQUARE HEAD STYLE						
	#6	3/8			#6	3/4
	#6	1/2			#6	1-1/4
	#6	5/8			#8	1
	#6	3/4			#8	1-1/2
	#6	1			#10	2
	#6	1-1/4				
	#6	1-1/2				
	#8	3/8				

This table continues on next page.

SELF TAPPING PAN SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE					
	304 (A2)		316 (A4)		410	
SQUARE HEAD STYLE						
	#8	1/2				
	#8	5/8				
	#8	3/4				
	#8	1				
	#8	1-1/4				
	#8	1-1/2				
	#8	1-3/4				
	#8	2				
	#10	1/2				
	#10	5/8				
	#10	3/4				
	#10	1				
	#10	1-1/4				
	#10	1-1/2				
	#10	1-3/4				
	#10	2				

SELF TAPPING HEX SECURITY SCREWS

THREAD SPECIFICATION	GRADE	
	304 (A2)	
BUTTON HEAD STYLE		
POST TORX		
	#6	1/2
	#6	3/4
	#6	1
	#6	1-1/2
	#8	1/2
	#8	3/4
	#8	1
	#8	1-1/4
	#10	1/2
	#10	3/4
	#10	1
	#10	1-1/4
	#10	1-1/2
	#14	3/4
	#14	1
	#14	1-1/2
COUNTERSUNK HEAD STYLE		
EYE DRIVE		
	#6	1/2
	#6	5/8
	#6	3/4
	#6	1
	#6	1-1/2
	#8	1/2
	#8	5/8
	#8	3/4
	#8	1
	#8	1-1/2
	#10	1/2
	#10	5/8
	#10	3/4
	#10	1
	#10	1-1/2
	#14	3/4
	#14	1
	#14	1-1/2
POST HEX		
	#8	1/2
	#8	3/4
	#8	1
	#8	1-1/2
	#10	1/2
	#10	3/4
	#10	1
	#10	1-1/2

THREAD SPECIFICATION	GRADE	
	304 (A2)	
POST TORX		
	#6	1/2
	#6	3/4
	#6	1
	#8	1/2
	#8	3/4
	#8	1
	#8	1-1/4
	#10	1/2
	#10	3/4
	#10	1
	#10	1-1/4
	#10	1-1/2
	#14	3/4
	#14	1
	#14	1-1/2
PAN HEAD STYLE		
EYE DRIVE		
	#6	3/8
	#6	1/2
	#6	5/8
	#6	3/4
	#6	1
	#6	1-1/2
	#8	1/2
	#8	5/8
	#8	3/4
	#8	1
	#8	1-1/2
	#10	1/2
	#10	5/8
	#10	3/4
	#10	1
	#10	1-1/2
	#10	2
	#14	1/2
	#14	3/4
	#14	1
	#14	1-1/2
RAISED HEAD STYLE		
ONE WAY		
	#8	1/2
	#8	3/4
	#8	1
	#8	1-1/2
	#10	1/2
	#10	3/4
	#10	1
	#10	1-1/2

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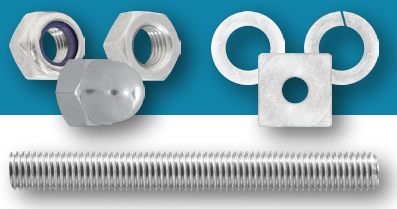
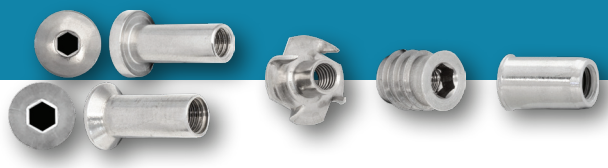
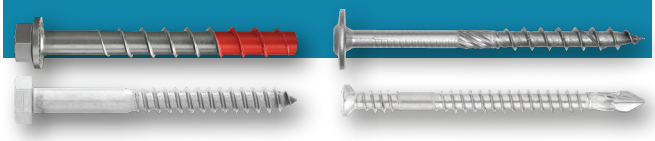


Stainless Nuts

Barrel Nuts, Tee Nuts, Wood Inserts & Rivnuts



Stainless Construction & Decking Screws

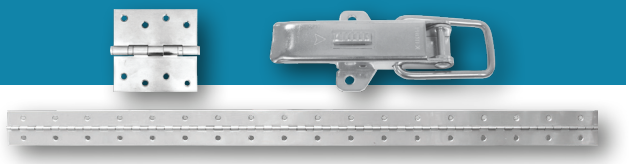


Stainless Pipe & Tube Fittings

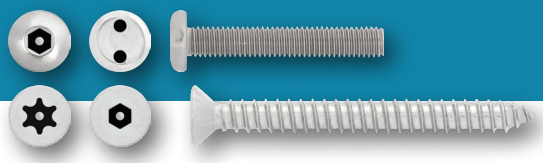
Pipe Clamps, Bends, Camloks, BSP/NPT, RJT/Tri Clamp

Stainless Hinge & Hardware

Piano/Butt Hinge and Toggle Latches



Stainless Security Fasteners



Stainless Wire Rope & Marine Hardware

Kanban Stock Management

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SOCKET HEAD CAP SCREW

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
UNC (inch)	2-56	3/16								
	2-56	1/4								
	2-56	3/8								
	4-40	1/4								
	4-40	5/16								
	4-40	3/8								
	4-40	1/2								
	4-40	5/8								
	4-40	3/4								
	4-40	1								
	4-40	1-1/2								
	5-40	1/4								
	5-40	5/16								
	5-40	3/8								
	5-40	1/2								
	5-40	5/8								
	5-40	3/4								
	6-32	3/16								
	6-32	1/4								
	6-32	5/16								
	6-32	3/8								
	6-32	1/2								
	6-32	5/8								
	6-32	3/4								
	6-32	1								
	6-32	1-1/4								
	8-32	1/4								
	8-32	3/8								
	8-32	1/2								
	8-32	5/8								
	8-32	3/4								
	8-32	1								
	8-32	1-1/2								
	10-24	1/4								
	10-24	3/8								
	10-24	1/2								
	10-24	5/8								
	10-24	3/4								
	10-24	1								
	10-24	1-1/4								
	10-24	1-1/2								
	10-24	2								
	1/4	3/8	1/4	1/2			1/4	5/8		

This table continues on next page.

SOCKET HEAD CAP SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
UNC (inch)	1/4	1/2	1/4	5/8			5/16	7/8		
	1/4	5/8	1/4	3/4			5/16	1-1/2		
	1/4	3/4	1/4	1			3/8	3/4		
	1/4	1	1/4	1-1/4			3/8	1		
	1/4	1-1/4	1/4	1-1/2			3/8	1-1/4		
	1/4	1-1/2	1/4	2			3/8	1-1/2		
	1/4	1-3/4	5/16	3/4			3/8	2-1/2		
	1/4	2	5/16	1			1/2	1		
	1/4	2-1/4	5/16	1-1/4			1/2	1-1/4		
	1/4	2-1/2	5/16	1-1/2			1/2	2		
	1/4	3	5/16	2			5/8	2		
	5/16	1/2	5/16	2-1/2			3/4	2-1/2		
	5/16	3/4	3/8	3/4						
	5/16	1	3/8	1						
	5/16	1-1/4	3/8	1-1/4						
	5/16	1-1/2	3/8	1-1/2						
	5/16	1-3/4	3/8	2						
	5/16	2	3/8	2-1/2						
	5/16	2-1/2	1/2	1						
	5/16	3	1/2	1-1/4						
	3/8	3/4	1/2	1-1/2						
	3/8	1	1/2	2						
	3/8	1-1/4	1/2	2-1/2						
	3/8	1-1/2	1/2	3						
	3/8	1-3/4	1/2	4						
	3/8	2	5/8	1-1/4						
	3/8	2-1/2	5/8	1-1/2						
	3/8	3	5/8	2						
	3/8	4	5/8	2-1/2						
	7/16	1	5/8	3						
	7/16	1-1/2								
	1/2	1								
	1/2	1-1/4								
	1/2	1-1/2								
	1/2	2								
	1/2	2-1/2								
	1/2	3								
METRIC (mm)	M3	5	M2.5	5	M3	6	M3	6	M4	12
	M3	6	M2.5	6	M3	8	M3	8	M4	20
	M3	8	M2.5	8	M3	10	M3	10	M6	20
	M3	10	M2.5	10	M3	12	M3	12	M6	30
	M3	12	M2.5	12	M3	16	M3	16	M6	40

This table continues on next page.

SOCKET HEAD CAP SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
METRIC (mm)	M3	16	M2.5	16	M3	20	M3	20	M6	50
	M3	20	M2.5	20	M3	25	M3	25	M6	60
	M3	25	M3	4	M3	30	M3	30	M6	70
	M3	30	M3	5	M4	6	M4	6	M6	80
	M3	35	M3	6	M4	8	M4	8	M8	20
	M3	40	M3	8	M4	10	M4	10	M8	30
	M3	45	M3	10	M4	12	M4	12	M8	40
	M3	50	M3	12	M4	14	M4	14	M8	50
	M3	60	M3	16	M4	16	M4	16	M8	60
	M3	70	M3	20	M4	20	M4	20	M8	70
	M4	5	M3	25	M4	25	M4	25	M8	80
	M4	6	M3	30	M4	30	M4	30	M8	90
	M4	8	M3	35	M4	35	M4	35	M10	20
	M4	10	M3	40	M4	40	M4	40	M10	30
	M4	12	M3	50	M4	50	M4	50	M10	40
	M4	16	M4	5	M5	10	M5	10	M10	50
	M4	20	M4	6	M5	12	M5	12	M10	60
	M4	25	M4	8	M5	16	M5	16	M10	70
	M4	30	M4	10	M5	20	M5	20	M10	80
	M4	35	M4	12	M5	25	M5	25	M10	90
	M4	40	M4	16	M5	30	M5	30	M10	100
	M4	45	M4	20	M5	35	M5	35	M12	30
	M4	50	M4	25	M5	40	M5	40	M12	40
	M4	60	M4	30	M5	45	M5	45	M12	50
	M4	65	M4	35	M5	50	M5	50	M12	60
	M4	70	M4	40	M5	60	M5	60	M12	70
	M4	80	M4	45	M5	70	M5	70	M12	80
	M4	90	M4	50	M6	12	M6	12	M12	90
	M4	100	M4	60	M6	14	M6	14	M12	100
	M5	10	M4	70	M6	16	M6	16	M12	110
	M5	12	M5	6	M6	20	M6	20	M12	120
	M5	16	M5	8	M6	25	M6	25	M16	25
	M5	20	M5	10	M6	30	M6	30	M16	30
	M5	25	M5	12	M6	35	M6	35	M16	35
	M5	30	M5	16	M6	40	M6	40	M16	40
	M5	35	M5	20	M6	45	M6	45	M16	50
	M5	40	M5	25	M6	50	M6	50	M16	60
	M5	45	M5	30	M6	55	M6	55	M16	65
	M5	50	M5	35	M6	60	M6	60	M16	80
	M5	60	M5	40	M6	65	M6	65	M16	90
	M5	65	M5	45	M6	70	M6	70	M16	100
	M5	70	M5	50	M6	75	M6	75	M16	130
	M5	75	M5	60	M6	80	M6	80	M16	140

This table continues on next page.

SOCKET HEAD CAP SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
METRIC (mm)	M5	80	M5	80	M6	90	M6	90	M20	40
	M5	100	M5	90	M8	16	M8	16	M20	60
	M5	110	M5	100	M8	20	M8	20	M20	130
	M5	120	M6	10	M8	25	M8	25	M20	140
	M5	130	M6	12	M8	30	M8	30		
	M5	140	M6	16	M8	35	M8	35		
	M6	10	M6	20	M8	40	M8	40		
	M6	12	M6	25	M8	45	M8	45		
	M6	16	M6	30	M8	50	M8	50		
	M6	20	M6	35	M8	55	M8	55		
	M6	25	M6	40	M8	60	M8	60		
	M6	30	M6	45	M8	65	M8	65		
	M6	35	M6	50	M8	70	M8	70		
	M6	40	M6	55	M8	75	M8	75		
	M6	45	M6	60	M8	80	M8	80		
	M6	50	M6	65	M10	16	M10	16		
	M6	55	M6	70	M10	20	M10	20		
	M6	60	M6	75	M10	25	M10	25		
	M6	65	M6	100	M10	30	M10	30		
	M6	70	M6	110	M10	35	M10	35		
	M6	110	M6	120	M10	40	M10	40		
	M6	120	M6	130	M10	45	M10	45		
	M6	130	M6	140	M10	50	M10	50		
	M6	140	M6	150	M10	55	M10	55		
	M6	150	M8	10	M10	60	M10	60		
	M8	12	M8	12	M10	65	M10	65		
	M8	16	M8	16	M10	70	M10	70		
	M8	20	M8	20	M10	75	M10	75		
	M8	25	M8	25	M10	80	M10	80		
	M8	30	M8	30	M10	90	M10	90		
	M8	35	M8	35	M10	100	M10	100		
	M8	40	M8	40	M10	120	M10	120		
	M8	45	M8	45	M12	20	M12	20		
	M8	50	M8	50	M12	25	M12	25		
	M8	55	M8	55	M12	30	M12	30		
	M8	60	M8	60	M12	35	M12	35		
	M8	65	M8	65	M12	40	M12	40		
	M8	70	M8	70	M12	45	M12	45		
	M8	75	M8	75	M12	50	M12	50		
	M8	90	M8	80	M12	55	M12	55		
	M8	100	M8	90	M12	60	M12	60		
	M8	120	M8	100	M12	65	M12	65		
	M8	130	M8	110	M12	70	M12	70		

This table continues on next page.

SOCKET HEAD CAP SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
METRIC (mm)	M8	140	M8	130	M12	75	M12	75		
	M8	150	M8	140	M12	80	M12	80		
	M8	160	M8	150	M12	90	M12	90		
	M8	180	M8	160	M12	100	M12	100		
	M8	200	M8	180	M12	120	M12	120		
	M10	12	M8	200	M12	125	M12	130		
	M10	16	M10	12	M12	130	M12	140		
	M10	20	M10	16	M12	140	M12	150		
	M10	25	M10	20	M12	150	M14	70		
	M10	30	M10	25	M14	70	M14	200		
	M10	35	M10	30	M14	200	M16	30		
	M10	40	M10	35	M16	25	M16	35		
	M10	45	M10	40	M16	30	M16	40		
	M10	50	M10	45	M16	35	M16	45		
	M10	55	M10	50	M16	40	M16	50		
	M10	60	M10	55	M16	45	M16	55		
	M10	65	M10	60	M16	50	M16	60		
	M10	70	M10	65	M16	55	M16	65		
	M10	75	M10	70	M16	60	M16	80		
	M10	80	M10	75	M16	65	M16	90		
	M10	90	M10	80	M16	80	M16	100		
	M10	100	M10	90	M16	90	M16	110		
	M10	110	M10	100	M16	100	M16	120		
	M10	130	M10	110	M16	110	M16	130		
	M10	150	M10	120	M16	120	M16	140		
	M10	180	M10	130	M16	130	M16	160		
	M10	200	M10	140	M16	135	M20	30		
	M12	20	M12	20	M16	140	M20	40		
	M12	25	M12	25	M16	150	M20	45		
	M12	30	M12	30	M16	160	M20	50		
	M12	35	M12	35	M20	30	M20	60		
	M12	40	M12	40	M20	40	M20	70		
	M12	45	M12	45	M20	45	M20	80		
	M12	50	M12	50	M20	50	M20	90		
	M12	55	M12	60	M20	60	M20	100		
	M12	60	M12	70	M20	65	M20	110		
	M12	65	M12	80	M20	70	M20	120		
	M12	70	M12	90	M20	75	M20	140		
	M12	75	M12	100	M20	80	M20	150		
	M12	80	M12	110	M20	90	M20	160		
	M12	90	M12	120	M20	100	M20	180		
	M12	100	M12	130	M20	110	M20	190		
	M12	110	M12	140	M20	120	M24	50		

This table continues on next page.

SOCKET HEAD CAP SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
METRIC (mm)	M12	120	M12	150	M20	130	M24	60		
	M12	130	M14	25	M20	140	M24	70		
	M12	140	M14	30	M20	150	M24	80		
	M12	150	M14	40	M20	160	M24	90		
	M12	160	M14	50	M20	180	M24	100		
	M12	180	M14	60	M20	190	M24	120		
	M12	200	M14	70	M24	50	M24	140		
	M14	25	M14	80	M24	60	M24	150		
	M14	30	M14	90	M24	70				
	M14	40	M14	100	M24	80				
	M14	45	M16	20	M24	90				
	M14	50	M16	25	M24	100				
	M14	55	M16	30	M24	120				
	M14	60	M16	35	M24	140				
	M14	70	M16	40	M24	150				
	M14	80	M16	45						
	M14	90	M16	50						
	M14	100	M16	60						
	M16	20	M16	65						
	M16	25	M16	70						
	M16	30	M16	75						
	M16	35	M16	80						
	M16	40	M16	90						
	M16	45	M16	100						
	M16	50	M16	110						
	M16	55	M16	120						
	M16	60	M16	130						
	M16	65	M16	140						
	M16	70	M16	150						
	M16	75	M20	35						
	M16	80	M20	40						
	M16	90	M20	45						
	M16	100	M20	50						
	M16	110	M20	60						
	M16	120	M20	70						
	M16	130	M20	80						
	M16	140	M20	90						
	M16	150	M20	100						
	M16	160	M20	120						
	M16	180	M20	150						
	M16	200	M24	50						
	M20	40	M24	60						
	M20	45	M24	80						

This table continues on next page.

SOCKET HEAD CAP SCREW (CONTINUED)

THREAD SPECIFICATION	GRADE									
	304 (A2)		316 (A4)		316 (A4-80)		HT 88		HT 109	
	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH
IFI 136C										
METRIC (mm)	M20	50	M24	100						
	M20	55								
	M20	60								
	M20	65								
	M20	70								
	M20	75								
	M20	80								
	M20	90								
	M20	100								
	M20	110								
	M20	120								
	M20	130								
	M20	140								
	M20	150								
	M20	160								
	M20	180								
	M20	200								
	M24	50								
	M24	60								
	M24	80								
	M24	90								
	M24	100								
	M24	120								
	M24	150								

TYPE 17 SCREWS

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
COUNTERSUNK-6 RIB				
SQUARE DRIVE #2	#10-12	50		
	#10-12	65		
BUGLE BATTEN-4 RIB				
INTERNAL HEX 5 mm	#14-10	35	#14-10	50
	#14-10	50	#14-10	65
	#14-10	65	#14-10	75
	#14-10	75	#14-10	100
	#14-10	100	#14-10	150
	#14-10	150		
SQUARE DRIVE			#6-10	25
			#6-10	32
			#6-10	38
			#6-10	50
			#8-10	25
			#8-10	32
			#8-10	38
			#8-10	50
			#8-10	58
			#8-10	65
			#8-10	75
			#10-10	50
			#10-10	58
			#10-10	65
			#10-10	75
			#12-10	58
			#12-10	65
			#12-10	75
			#14-10	50
			#14-10	58
			#14-10	65
			#14-10	75
			#14-10	100
TDX TRIM HEAD-4 RIB				
SQARE DRIVE #1	#7-10	55		
	#10-8	50		
	#10-8	65		
TRIM HEAD-6 RIB				
SQUARE DRIVE #1	#8-10	50		
	#9-9	53		
FLANGED HEX				
AS 3566				
			#12-11	25
			#12-11	50
			#12-11	65
			#14-10	25

THREAD SPECIFICATION	GRADE			
	304 (A2)		316 (A4)	
FLANGED HEX				
AS 3566				
			#14-10	50
			#14-10	65
			#14-10	75
			#14-10	90
HEX HEAD + WASHER				
AS 3566				
			#12-11	25
			#12-11	50
			#12-11	65
			#14-10	25
			#14-10	50
			#14-10	65
			#14-10	75
			#14-10	90
SELF EMBED HEAD				
SQUARE DRIVE			#10-12	40
			#10-12	50
			#10-12	65
			#10-12	75
			#12-10	130
			#12-10	150
BUTTON HEAD				
SQUARE DRIVE #2			#10-12	30
			#10-12	38
			#10-12	44
			#10-12	60

Please Note: Type 17 refers to a commonly used designation for screw points designed for drilling through light gauge steel and timbers.

BUYERS' GUIDE

The ASSDA Buyers' Guide is the reference to the stainless steel industry in Australia, with a list of ASSDA member companies within each category. The below provide details on stainless steel suppliers as per the categories provided in this Stock Guide. For a full listing of stainless steel supply, fabrication and other industry services, please refer to the online Buyers' Guide at www.assda.asn.au.

SUPPLIERS

BAR

A & G Engineering
AAA Metal Suppliers
Acerinox, S.A
Allmate International Co., Ltd.
AMBA Stainless Wire and Screen
Ancon Building Products
Atlas Stainless Balustrade & Fabrications
Atlas Steels
Austral Wright Metals
Australian Stainless Distributors (ASD)
Australian Stainless Tube & Imports
Castle International Trading
Dalsteel Metals
Edcon Steel
Fagersta Steels
Geordi Stainless
Intexport Steel
Isolthermics Australia
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Metal Centre Australia
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