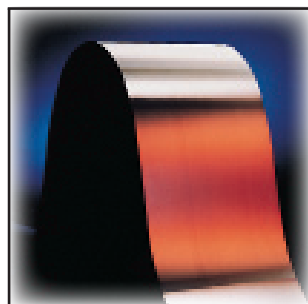
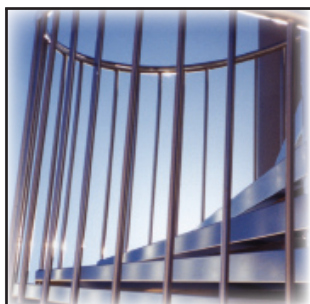

STAINLESS STEEL STOCK GUIDE

A generic stock list of products reported to be regularly available ex stock



Essential information for anyone designing in stainless steel.

Edition 4 – January 2009

ASSOA

Australian Stainless Steel
Development Association

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 *Reference Manual*. Stainless steel suppliers also have information which complements advice from ASSDA.

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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 N ⁰¹)
POL	Polished
PC	Polyethylene (PE) coated
RT	Rough turned
SMLS	Seamless
SRE	Slit rolled edge
ST	Spring temper
WLD	Welded
2B	Lightly cold rolled coil

Stainless Steel Stock Guide

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 ...

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	X	X
914	X	✓
1000	✓	X
1200	X	X
1219	X	✓
1250	✓	X
1500	✓	X
1524	X	✓
2000	✓	✓

✓ = readily available

X = sometimes (but not readily) available

Round bar

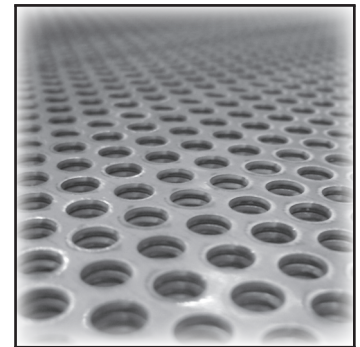
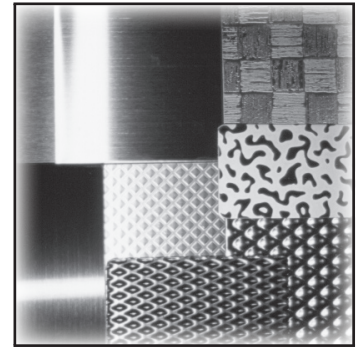
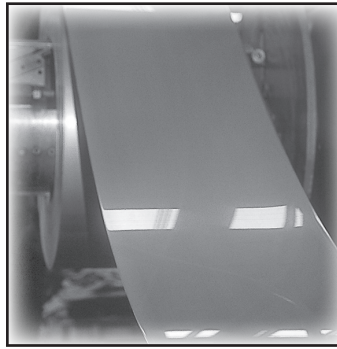
Round bar is commonly available in imperial sizes, eg. 15.88 mm, but may also be available in hard metric sizes, eg. 16.00 mm diameter.

In some product areas, particularly flat product, the metric size appears and is taken to include the closest imperial measurement.

Users of the *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. Stockists should be consulted for further information.



SHEET, COIL AND PLATE

Product Description

Flat product up to and including 4.75 mm in thickness, with a 2B finish or better, 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 N^o1 finish; 2B finish may be available in some products up to 8.00 mm. This *Guide* lists cold rolled products (generally 2B, BA or N^o4 finish) as “Coil” or “Sheet” and hot rolled products (N^o1 / HRAP finish) as “Plate”. Dimensional tolerances are determined by the production process - hot or cold rolled - not by the description of Coil or Plate.

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 A167	Stainless and heat resisting chromium-nickel steel plate, sheet and strip.
ASTM A176	Stainless and heat resisting chromium steel plate, sheet and strip.
ASTM A666	Austenitic stainless steel sheet, strip, plate and flat bar for structural applications.
EN 10088-2	Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip for general purposes.
ASTM B625	UNS No8904 plate, sheet and strip.

Stainless Steel Stock Guide

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 (1524mm). Check with your stockist for availability. For more information on metric and imperial sizing, turn to page 4.

◇2B finish - for N^o1 finish refer to Plate.

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

Key eg for DN 15 Sch 5S

1.65= Wall Thickness (mm)

18.04= Nominal ID (mm)

0.80 = Mass in kg/m for carbon steel

Dimensions according to ASME B36.19M for Stainless Steel Pipe.

Dimensions according to ASME B36.10M for Welded and Seamless Wrought Steel Pipe - Schedules 160 and XXS are usually only available in carbon steels.

Mass is given in kilograms per metre and is for carbon steel pipe with plain ends. The different grades of stainless steel permit considerable variation in mass.

The austenitic stainless steels may be about 2% greater mass, and the ferritic stainless steels about the same mass values as shown in the table.

For details of dimensional tolerances, refer to applicable standards such as ASTM A312/A312M.

This table is a guide only and should not be used to determine availability of product. Call your supplier or ASSDA to determine availability.

Stainless Steel Stock Guide

STAINLESS STEEL SHEET

[illegible]

Stainless Steel Stock Guide

STAINLESS STEEL COIL																				
Thickness (mm)	Width (mm)	304 2B	304 No4 PC	304 BA PC	304 HRAP	316/ 316L 2B	316 No4 PC	316L HRAP	321 2B	321 HRAP	430 BA PC	430 No4 PC	Ferr Sub 304# 2B	Ferr Sub 304# No4 PC	Ferr Sub 316# 2B	Ferr Sub 316# No4 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	•	•																	
1.50/1.60	1219	•	•	•		•	•		•		•	•	•	•	•	•			•	
	1500*	•	•																	
	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 availability. For more information on metric and imperial sizing, turn to page 4.

STAINLESS STEEL PERFORATED SHEET: GRADE 304

Hole Diameter (mm)	Centre (mm)	Thickness (mm)	Width (mm)	Length (mm)
1.60	2.54	0.7	1200	2400
2.01	3.00	0.9	1200	2400
3.25	4.52	0.9	1200	2400
3.25	5.59	1.5	1200	2400
4.80	*	0.9	1200	2400
4.80	*	1.2	1200	2400
4.80	*	1.6	1200	2400
6.35	9.55	1.5	1200	2400
9.53	14.30	1.5	1200	2400
12.70	17.30	1.5	1200	2400

* 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	•	•					
8.00		8000	•	•					
	1500	3000	•	•					
		6000	•	•	•			•	
	2000	6000	•	•	•	•	•	•	•
	2500	6000	•	•					
	3000	7500	•	•					
	1500	3000	•	•					
		6000	•	•	•			•	
10.00	2000	6000	•	•	•	•	•	•	
	2500	7500	•	•				•	
	3000	7500	•	•					
	1500	6000	•	•					
12.00	2000	6000	•	•	•	•	•	•	•
	2500	7500	•	•				•	
	3000	7500	•	•					
	1500	6000	•	•					
13.00	2000	6000	•	•	•			•	
	2500	7500	•	•					
	3000	7500	•	•					
	1500	6000	•	•					

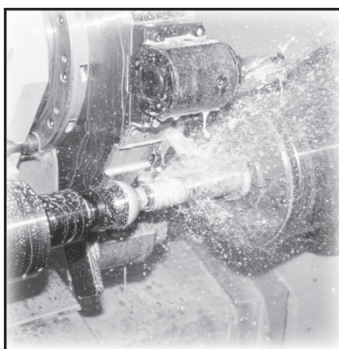
* N⁰1 finish (HRAP) is standard. 2B finish may be available in thicknesses up to about 8.00 mm.
NB Sizes also cover the closest imperial measurement. For more information turn to page 4.

Stainless Steel Stock Guide

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		•					

* N^o1 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 4.



BAR

Product Description

Stainless steel bar comprises numerous long products referred to by the shape, the section dimension, grade, condition and surface finish.

Sizes 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.

Grades 431 and 2205 are often stocked in a smooth turned or centreless ground finish.

Relevant Standards

ASTM A276	Stainless and heat resisting steel bars and shapes.
ASTM A484/A484M	General requirements for stainless and heat resisting steel bars, billets and forgings.
ASTM A479/A479M	Stainless and heat resisting steel bars and shapes for use in boilers and other pressure vessels.
AS 2837	Wrought alloy steels – stainless steel bars and semi-finished products.
ASTM A564/A564M	Hot rolled and cold finished age-hardening stainless and heat resisting steel bars and shapes.
ASTM A582/A582M	Free machining stainless and heat resisting steel bars and hot rolled or cold finished.
ASTM A193/A193M	Alloy steels and stainless steel bolting materials for high temperature service.
ASTM A194/A194M	Carbon and alloy steel nuts for bolts for high pressure and high temperature service.
ASTM A320/A320M	Alloy steel bolting materials for low temperature service.
ASTM A453/A453M	Bolting materials, high temperature 345-827MPa yield strength with expansion coefficients comparable to austenitic steel.
EN 10088-3	Stainless steels – Part 3: Technical delivery conditions for semi-finished products, bars, rods and sections for general purposes.

Stainless Steel Stock Guide

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 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 quality is available in most grades of stainless steel.

Stainless Steel Stock Guide

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 quality is available in most grades of stainless steel.

STAINLESS STEEL HEXAGONAL BAR

Across Flats (mm)	Across Flats (inches)	Weight (kg/m)	303	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 Stock Guide

STAINLESS STEEL FLAT BAR			
Thickness (mm)	Width (mm)	304	316
3.00	12.00	•	•
	20.00	•	•
	25.00	•	•
	30.00	•	•
	40.00	•	•
	50.00	•	•
5.00	75.00	•	•
	20.00	•	•
	25.00	•	•
	30.00	•	•
	40.00	•	•
	50.00	•	•
	65.00	•	•
	75.00	•	•
6.00	100.00	•	•
	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	•	•

Flat bars are manufactured by either hot rolling (HRAP) or by cold slitting of coil (SRE).

STAINLESS STEEL FLAT BAR (Continued)			
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	•	•
16.00	150.00	•	•
	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 (HRAP) or by cold slitting of coil (SRE).

Stainless Steel Stock Guide

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.

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

Nominal Diameter (mm)	Cross-sectional Area (mm)	Mass (kg/m)	
		Cold Ribbed	Hot Ribbed
6	28.30	0.223	
8	50.30	0.397	
10	78.50	0.620	
12	113.10	0.893	
16	201.10	1.588	
20	314.20		2.450
25	490.90		3.829
32	804.20		6.273
40	1256.60		9.802

Stainless Steel Stock Guide

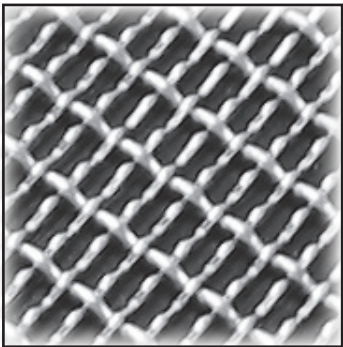
STAINLESS STEEL HOLLOW BAR GRADE 316

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 Stock Guide



WIRE

Product Description

A wide range of wire types is produced to order for use in diverse applications.

Relevant Standards

ASTM A313/A313M	Chromium-nickel stainless and heat resisting steel spring wire.
ASTM A493	Stainless and heat resisting steel for cold heading and cold forging wire.
ASTM A580/A580M	Stainless and heat resisting steel wire.
ASTM A581/A581M	Free machining stainless and heat resisting steel wire and wire rods.
ASTM A555/A555M	General requirements for stainless and heat resisting steel wire and wire rods.
JIS G4309	Stainless steel wires.
JIS G4314	Stainless steel wires for springs.
AWS A5.4	Specification for covered corrosion resisting chromium and chromium-nickel steel welding electrodes.
AWS A5.9	Specification for corrosion resisting chromium and chromium-nickel steel bar and composite metal cored and stranded welding electrodes and welding 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.

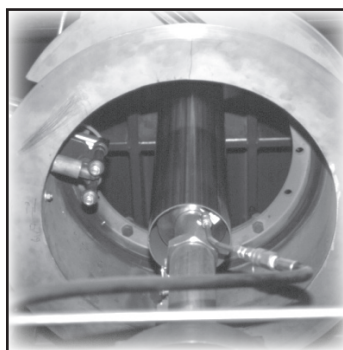
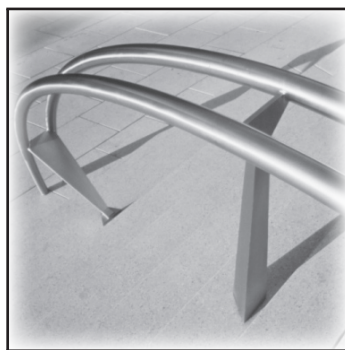
Coatings: **Super coat / Spring coat:** Water soluble coatings applied by dipping and baking to act as a lubricant carrier in subsequent forming. Wire can be drawn in soap to provide an additional stearate lubricant coating.

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.

Stainless Steel Stock Guide



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.

Tube is defined by an outside dimension (OD) and wall thickness. It is manufactured in round, square or rectangular sections.

Relevant Standards

ASTM A312/A312M	Seamless and welded austenitic stainless steel pipe.
ASTM A790/A790M	Seamless and welded ferritic/austenitic stainless steel pipe.
ASTM A358/A358M	Electric-Fusion-Welded (EFW) austenitic chromium-nickel alloy steel pipe for high temperature service.
ASTM A409/A409M	Welded large diameter austenitic steel pipe for corrosive or high temperature service.
ASTM A731/A731M	Seamless and welded ferritic and martensitic stainless steel pipe.
ASTM A450/A450M	General requirements for carbon, ferritic alloy and austenitic alloy steel tubes.
ASTM A999/A999M	General requirements for alloy and stainless steel pipe.
JIS G3459	Stainless steel pipes (Japanese manufacture).
ANSI/ASME B36.19M	Stainless steel pipe.
ASTM A789/A789M	Seamless and welded ferritic/austenitic stainless steel tubing for general service.
ASTM A450/A450M	General requirements for carbon, ferritic alloy and austenitic alloy tubes.
ASTM A554	Welded stainless steel mechanical tube.
ASTM A249/A249M	Welded austenitic steel boiler, superheater heat exchanger and condenser tubes.
ASTM A269	Seamless and welded austenitic stainless steel tubing for general service.
AS 1528:1-4	Tubes - stainless steel - and tube fittings for the food industry.

Stainless Steel Stock Guide

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 WLD	Super 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 Stock Guide

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 WLD	Super 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							•					

Stainless Steel Stock Guide

STAINLESS STEEL ROUND TUBE

Outside Dia-meter (mm)	Wall Thick-ness (mm)	304 AW	304 AW POL	304 AW ANN	304 SMLS CW ANN	304 AW ANN POL	316 AW	316 AW POL	316 AW ANN	316 AW ANN POL	316 AW CW ANN	316 SMLS CW ANN	316 SMLS	316 Mirror	321 SMLS CW ANN	409 AW	Ferr-itics Rural
3.18	0.41								•								
	0.70											•					
	0.79																
4.76	0.50	•		•													
	0.90											•					
6.35	0.50	•		•													
	0.70			•											•		
	0.90											•			•		
	1.20				•							•	•				
	1.60																
7.94	0.50			•													
	0.90											•					
	1.60																
	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	•	•														
	1.20	•	•	•			•		•			•	•				
	1.60	•	•				•		•	•		•	•		•		
	0.46			•													
19.05	0.50	•															
	0.70	•						•									
	0.90											•					
	1.20	•	•	•	•	•	•	•	•	•		•	•	•			
	1.60	•FT	•	•	•	•	•	•	•	•		•	•	•	•		
	2.00			•								•	•				
	2.11												•				
	2.64												•				
	3.25											•					
22.20	1.20	•	•	•		•	•	•	•	•				•			
	1.60	•	•	•		•	•	•	•	•		•		•	•		
25.40	1.20	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
	1.60	•FT	•	•	•	•	•	•	•	•	•	•	•	•	•		•
	2.00	•		•								•	•				
	2.11												•				
	2.64												•				
	3.20											•					
	3.25											•					

Stainless Steel Stock Guide

STAINLESS STEEL ROUND TUBE (Continued)																	
Outside Dia- meter (mm)	Wall Thick- ness (mm)	304 AW	304 AW POL	304 AW ANN	304 SMLS CW ANN	304 AW ANN POL	316 AW	316 AW POL	316 AW ANN	316 AW ANN POL	316 AW CW ANN	316 SMLS CW ANN	316 SMLS	316 Mirror	321 SMLS CW ANN	409 AW	Ferr- itics Rural
28.58	1.20		•					•									
	1.60		•					•									
31.75	1.20	•	•	•					•	•							•
	1.60	•FT	•	•		•	•	•	•	•			•	•			•
	2.00	•															
	3.20											•	•				
38.10	0.70	•		•									•				
	1.20	•	•	•		•	•		•	•	•	•	•				
	1.50															•	
	1.60	•FT	•	•	•	•	•	•	•	•	•	•	•	•	•		
	2.00	•		•								•	•				
	3.20											•	•				
41.27	1.20		•														
	1.50															•	
	1.60		•														
44.45	1.50															•	
	1.60	•	•	•		•		•						•			
	2.64												•				
47.62	1.50															•	
	1.60					•											
50.80	1.20	•	•							•		•					
	1.50															•	
	1.60	•FT	•	•	•	•	•	•	•	•	•	•	•	•			
	2.00	•		•			•		•								
	3.00							•									
	3.20												•	•		•	
	3.25	•		•													
57.50	1.50															•	
	1.60	•															
63.50	1.50															•	
	1.60	•FT	•	•		•	•	•	•	•	•	•	•	•			
	2.00	•						•								•	
	3.25											•					
76.20	1.60	•FT	•	•		•	•	•	•	•	•	•	•				
	2.00	•		•			•										
	3.00	•						•									
	3.20	•											•				
	3.25	•										•					
88.90	1.60	•		•			•		•		•						
101.60	1.60	•FT	•	•		•	•	•	•	•	•						
	2.00	•					•		•								
	3.25	•										•					
127.00	1.60	•					•		•								
152.40	1.60						•		•								
	2.00	•															
203.20	2.00	•					•										

FT: Food Tubing available to AS 1528 Part 1, as welded (not annealed) polished and unpolished.

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

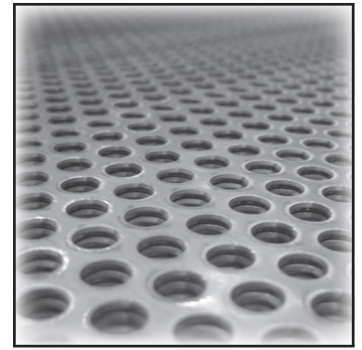
A/F dimension (mm)	Wall thickness (kg/m)	304	316
12.70	0.9	•	
	1.2	•	•
19.05	1.2	•	•
	1.6	•	•
22.20	1.2	•	
	1.6	•	
25.00	2.0	•	•
	3.0	•	
25.40	1.2	•	•
	1.6	•	•
31.75	1.2	•	•
	1.6	•	•
32.00	2.0	•	•
38.10	1.2	•	•
	1.6	•	•
	3.0	•	•
40.00	3.0	•	•
50.00	1.6	•	•
	2.0	•	
	3.0	•	•
60.00	3.0	•	•
80.00	2.0	•	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

May be available in AW and AWBP finishes

Stainless Steel Stock Guide

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

Relevant Standards

Butt weld pipe fittings

ASTM A403/A403M Wrought austenitic stainless pipe fittings

Low pressure screwed fittings

ISO 4144:2003 Stainless steel pipework fittings threaded in accordance with ISO 7-1

High pressure screwed (NPT) and socket weld pipe fittings

ASTM A182/A182M Forged or rolled alloy steel pipe flanges and fittings for higher temperature service

ASTM A403/A403M Wrought austenitic stainless pipe fittings

MSS SP-95 Swage(d) nipped and bull plugs

MSS SP-83 Steel pipe unions, socket welding and threaded

MSS SP-79 Socket welding reducer inserts

Butt weld tube fittings

AS1528 Stainless steel tubes and tube fittings for the food industry

Stainless Steel Stock Guide

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			
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																														

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Stainless Steel Stock Guide

PIPE SOCKET WELD HIGH PRESSURE FITTINGS

SIZE	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	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	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										•		

Stainless Steel Stock Guide

TUBE SCREWED FITTINGS

OD (MM/")	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/")	WT (MM/")	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				

TUBE COMPRESSION FITTINGS (316/L)

OD (MM/")	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	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

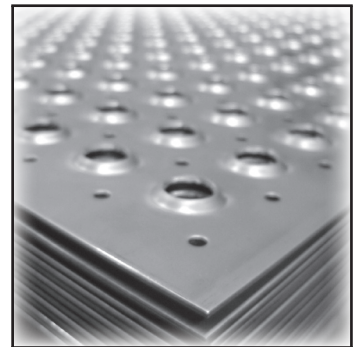
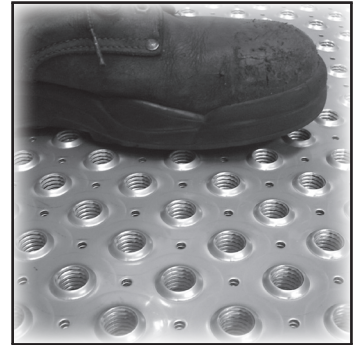
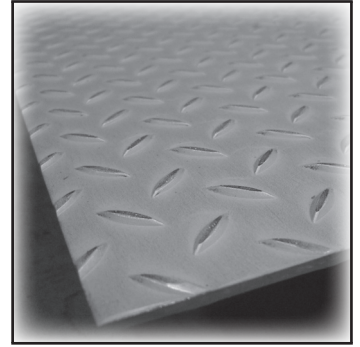
Stainless Steel Stock Guide

TUBE FITTINGS

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TUBE BUTT WELDED FITTINGS

OD (MM/IN)	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/ 2	•	•	•	•		•	•	•		•		•		•		•
127.00/ 5	1.6/ 2		•	•	•			•	•						•		•
152.40 / 6	1.6/ 2							•	•		•				•		•
203.20/ 8	2			•	•				•						•		•
254.00/ 10	2			•	•				•						•		
304.80/ 12	2			•	•				•						•		



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.

Safety Floor Sheet is a unique perforated material with 360° grip design and drain holes so liquids do not pool.

Floor (Chequer) 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 Stock Guide

STAINLESS STEEL SAFETY FLOORING GRADE 316

Product	Thickness (mm)	Width (mm)	Length (mm)	304 HR	304 Pressed	3CR12/ 5CR12
Safety Floor Sheet	2.00	1220	2440		•	
		1220	3000		•	
		1500	3000		•	
Floor (Chequer)	1.00	1200	2400		•	
Plate	2.00	1200	2400		•	
	3.00	1200	2400	•	•	
	3.50	1200	2400	•		
	4.50	1200	2400	•		
		1500	3000	•		
	6.00	1200	2400	•		
		1200	3000	•		•
		1500	3000	•		

ASSDA

AUSTRALIAN STAINLESS STEEL DEVELOPMENT ASSOCIATION

ASSDA MAJOR SPONSORS



ASSDA SPONSORS



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