

Aluminium · Stainless Steel

Stocklist and Technical Information

ThyssenKrupp Materials (UK)
Metalfast



ThyssenKrupp

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A simple philosophy

We deliver what you want, when you want it



At Metalfast we have a very simple philosophy; to deliver what our customers want, when they want it. Once a promise has been made, it doesn't get changed without talking to our customer first. Our ability to consistently deliver this philosophy has earned us an enviable reputation.

About us

Metalfast was founded in 1984 with exactly the same philosophy, but a small range of stock and one small office. Since then we have grown rapidly and our range of stock has developed into the extensive range of sizes and alloys, and we now have warehouses in Swindon, Birmingham, Milton Keynes, Manchester and Leeds.

At Metalfast the importance of our customers is never underestimated. The relationships we build are core to our success and getting to know our customers' businesses, almost as well as they do enables us to use our experience and technology to help them reduce their costs and increase their profitability.

Additional services

Bar cutting, plate sawing, billet preparation, blanking, chamfering, CNC machining and complete supply chain management.

Services offered

Metalfast has 7 plate saws, 13 bar saws, 4 vertical band saws, 2 polycoating machines and overhead cranes with vacuum lifting equipment. Alongside all this we have a staff of dedicated and skilled people who you can discuss your requirements with, and who will process your order and deliver it to your door. With a range of stock immediately available, we can normally deliver your order within 48 hours and when necessary, even sooner.

Product portfolio

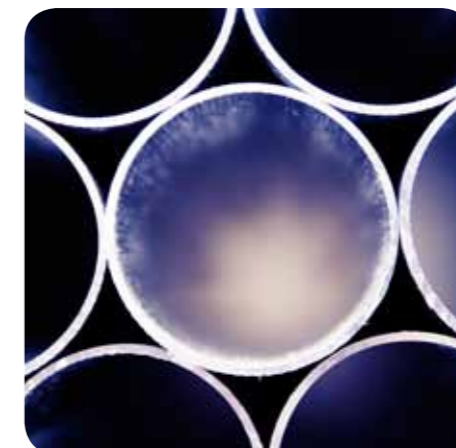
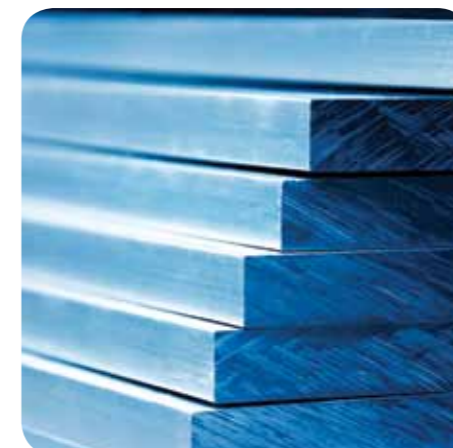
We have one of the largest stock ranges of commercial aluminium plate, bar, tube and extrusion in the UK.

We stock 1050A, 2011, 2011i, 2014, 2024, 5083, 5251, 6012i, 6061, 6082, M82, 6262, 7075, Cast Aluminium Tooling Plate C250, C330, C330R and Rolled Tooling Plate HSP. We keep a very comprehensive range of flat bars, angles, channels, tubes and sheet.

Although we are unashamedly aluminium specialists, for your convenience we also stock a wide range of stainless steel and brass. And now that we are part of ThyssenKrupp Materials (UK) we have access to an even greater range of material and an even better purchasing position than ever before.

Having a great stock range and being able to process and deliver it quickly is not always enough though. Sometimes specialised extrusions, exotic alloys or bespoke items are required - often quickly. To this end, Metalfast have invested a great deal of time (and air miles) forging relationships with reputable mills and stockholders around the globe, enabling us to not only source what is required, but to schedule and stock it for you too.

Whether its stocking a bespoke extrusion or offering a 'single source' service, Metalfast has hundreds of loyal customers, ranging from Formula One race teams to small sub-contract engineers-including over 200 other UK stockholders!



The UK's Premier Motorsports Materials Supplier ThyssenKrupp Materials (UK) Motorsports Division

A leading stockholder and supplier of high performance materials to the Motorsports Industry. As part of an integrated materials technology group - ThyssenKrupp AG, our Motorsports Division is well placed to provide around 140 specialised material grades at competitive prices, with the purchasing power of one of Europe's largest companies.

Contact our dedicated motorsports sales team today for a competitive quote:

Tel: 0844 225 2240
Fax: 0844 255 2241
www.tkmotorsports.co.uk
Email: motorsports.tkmuk@thyssenkrupp.com

Let us turn your designs into reality... Alserco

With over 15 years experience in the market and the backing of our global parent company ThyssenKrupp AG, Alserco is your partner for first class aluminium fabrication. From turning your drawing into a custom profile, we can stock, hold the material and deliver just in time, a fully fabricated part, either from our own bespoke warehouse or via one of our dedicated stock holding facilities around the UK.

- ISO9002 approved quality systems
- 15,000 sq.ft. fabrication facility
- Global sourcing of aluminium extrusions via our approved extrusion partners.
- Stockholding and just in time deliveries via our national logistics.

So why not let us take away the hassle; let Alserco become your dedicated extrusion fabrication partner.

Tel: 01384 563 133
Fax: 01384 563 197
www.alserco.co.uk

From Aluminium to LED's A one stop shop...

Alongside our wide range of stainless steel and aluminium products we are able to offer customers the complete 'one stop shop' experience. Talk to us about your plastics and LED requirements today. By bundling your purchases together we can save you time and optimise your supply chain.

Suppliers of Oroglas® Cast Acrylic, Quinn XT® Extruded Acrylic, Dibond® and Dilite®, Marlon FS® Polycarbonate Sheet, Forex® Classic, Forex® Print and Forex® Smart and SloanLED's®

Plastics

Tel: 0844 846 9573
Fax: 0844 846 9574
www.tkplastics.co.uk
sales.tkmuk@thyssenkrupp.com

FOREX

DIBOND

DILITE



QUINNplastics



marlon fsx
marlon fs



Aluminium Plate

Plate - C210 (5083), 6061, 6082, M82 (6082 T651), 2014, 7075, C250, Fortal and HSP

C210 (5083)

Cast plate, 5083 commercial rolled plate.

6061

American grade of Aluminium rolled plate used widely in aerospace.

6082

Commercial rolled plate, excellent all round capabilities.

M82 (6082 T651)

Finished, polycoated & produced to special tolerances.

2014

Rolled plate, high strength.

7075

Rolled plate, very high strength.

C250

Cast, machined tooling plate.

Fortal

Mould plate, similar strength to 7075.

HSP

Rolled, machined tooling plate.

Thickness	Alloy								
	C210 (5083)	6061	6082	M82 (6082 T651)	2014	7075	C250	Fortal	HSP
4mm	•		•		•				
3/6"	•		•		•				
5mm	•		•	•	•		•		
6mm	•		•	•	•	•	•		•
1/4"	•	•	•	•	•		•		•
7mm				•			•		
5/16" (8mm)	•	•	•	•	•	•	•		•
3/8"	•	•	•	•	•		•		•
10mm	•		•	•	•	•	•		•
12mm	•		•	•	•	•	•		•
1/2"	•	•	•	•	•	•	•		•
15mm	•		•	•		•	•	•	•
5/8"	•	•	•	•	•		•		•
16mm	•		•	•			•		•
3/4"	•	•	•	•	•	•	•		•
20mm	•		•	•	•	•	•	•	•
7/8"	•		•	•			•		•
25mm	•		•	•	•	•	•	•	•
1"	•	•	•	•	•	•	•		•
27mm			•						
1.1/8"	•	•	•	•	•		•		
30mm	•		•		•	•	•	•	•
1.1/4"	•	•	•	•	•	•	•		•
35mm	•	•	•				•		•
1.1/2"	•	•	•		•	•	•		
40mm	•		•			•	•	•	•
1.5/8"						•			
1.3/4"	•		•		•		•		
45mm	•		•			•			•
50mm	•		•			•	•	•	•
2"	•	•	•		•	•	•		
2.1/4"	•		•		•		•		
60mm	•		•			•	•	•	
2.1/2"	•	•	•		•	•	•		
65mm			•						
2.3/4"	•		•		•				
70mm	•		•			•		•	
75mm			•			•			
3"	•	•	•		•	•	•		
80mm	•		•			•		•	
3.1/4"			•						
3.1/2"	•	•	•		•				
90mm			•			•		•	
100mm	•		•			•		•	
4"	•	•	•		•				
4.1/2"	•		•		•				
115mm	•		•			•		•	
120mm			•					•	
125mm	•					•			

Aluminium Plate

Plate - C210 (5083), 6061, 6082, M82 (6082 T651), 2014, 7075, C250, Fortal and HSP

Thickness	Alloy								
	C210 (5083)	6061	6082	M82 (6082 T651)	2014	7075	C250	Fortal	HSP
5"	•		•		•				
135mm									
5.1/2"			•						
140mm	•		•			•			
150mm	•		•			•			
6"	•		•		•				
6.1/2"			•						
7"			•		•				
165mm	•								
175mm	•								
180mm	•		•						
185mm			•						
190mm			•						
200mm	•		•						
210mm	•								
220mm	•								
230mm	•								
250mm	•								
8"	•		•		•				
9"			•						
10"			•						
12"	•		•						

* We are able to source up to 2 metres thick if required

We cut plate and bar 24 hours a day, 5 days a week.

Cutting Facilities

Plate Cutting

- 7 plate saws and 4 vertical bandsaws
- Plate cut up to 10" thick and 4 metres long
- Rings and circles up to 10" thick and 2000mm dia
- Tolerances as tight as +/- 0.5mm (+/-0.2mm on special request)
- Vacuum lifting and polycoating to ensure plate is flat and scratch free
- Sizes of 2m x 1m, 2.5m, 3m x 1.5m, 4m x 2m

Bar Cutting

- 12 bar saws
- Bar billets cut up to 16" (410mm) dia in house but we can cut up to 20" dia bar through one of our approved out workers.=

M82 (6082 T651) Aluminium Plate

M82 is 6082 T651 alloy but produced specifically to help you meet the ever increasing demands faced in a market place that has never been so competitive.

M82 is manufactured at one of the most modern aluminium rolling mills in the world. Located in Pietermaritzburg, South Africa, Hulamin Aluminium has been producing high quality semi-facbricated products since 1948. The company employes advanced technology in remelt, hot rolling, solution heat treatment, stretching and surface finishing, expertise that provides all Hulamin Aluminium's products with a leading edge in quality and performance.

M82 will help reduce your costs and increase your productivity because...

- It is produced to 0.7 of EN 485's thickness and flatness tolerances - saving you money on buying material you don't need and saving you machining time.
- It remains stable even during machining - reducing the number of wasted components.
- Both surfaces are linished and polycoated - no wasted time 'cleaning up' surfaces and it anodises well.

Size (mm)	Thickness (mm)	Tolerances		
		Logitudinal (mm/Mtr max.)	Flatness Traverse (mm/Mtr max.)	Partail Deviation (mm/300mm)
5 x 2500 x 1250	+/-0.21	3	2	1
3000 x 1500	+/-0.21	3	2	1
6 x 2500 x 1250	+/-0.22	3	2	1
3000 x 1500	+/-0.22	3	2	1
1/4" x 2500 x 1250	+/-0.22	3	2	1
3000 x 1500	+/-0.22	3	2	1
7 x 2500 x 1250	+/-0.22	3	2	1
8 x 2500 x 1250	+/-0.25	2	2	1
3000 x 1500	+/-0.28	2	2	1
3/8" x 2500 x 1250	+/-0.32	2	2	1
3000 x 1500	+/-0.32	2	2	1
10 x 2500 x 1250	+/-0.32	2	2	1
3000 x 1500	+/-0.35	2	2	1
12 x 2500 x 1250	+/-0.35	2	2	1
3000 x 1500	+/-0.42	2	2	1
1/2" x 2500 x 1250	+/-0.42	2	2	1
3000 x 1500	+/-0.42	2	2	1
15 x 2500 x 1250	+/-0.35	2	2	1
3000 x 1500	+/-0.42	2	2	1
5/8" x 2500 x 1250	+/-0.42	2	2	1
3000 x 1500	+/-0.42	2	2	1
16 x 2500 x 1250	+/-0.35	2	2	1
3000 x 1500	+/-0.35	2	2	1
3/4" 2500 x 1250	+/-0.49	2	2	1
3000 x 1500	+/-0.49	2	2	1
20 x 2500 x 1250	+/-0.42	2	2	1
3000 x 1500	+/-0.49	2	2	1
25 x 2520 x 1250	+/-0.46	2	2	1
3000 x 1500	+/-0.53	2	2	1
1" x 2500 x 1250	+/-0.46	2	2	1
3000 x 1500	+/-0.53	2	2	1

Aluminium Sheet

Sheet - 1050A H14, 2014, 2024 T3, 5251 H22, 5083 H111, 6061, 6082 T6

1050A H14
Excellent formability and anodising qualities.

2014
Rolled sheet, high strength.

2024 T3
Rolled sheet, high strength, widely used in Aerospace industry.

5083 H111
Medium strength, good formability, machining.

5251 H22
Medium strength alloy, good for punching, machining and anodising.

6061
American grade of Aluminium rolled sheet widely used in Aerospace industry.

6082 T6
High strength alloy excellent machining quality most suitable for forming.

Thickness (mm)	Alloy								
	1050 AH14	2014	2024 T3	5083 H111	5251 H22	6061	6082 T6	3103 H14	5083 'O'
0.5	•				•				
0.7	•				•		•		
0.8			•			•			
0.9	•				•		•		
1.0	•				•	•	•	•	•
1.2	•				•	•	•	•	
1.5	•	•			•		•	•	•
1.6					•	•	•		
2.0	•	•		•	•		•	•	•
2.5	•				•	•	•	•	
2.8		•							
3.0	•	•		•	•		•	•	•

Stucco sheet - alloy 1050A - H14/H24

Size (mm)
2000 x 1000 x 0.5
2500 x 1250 x 0.5
2000 x 1000 x 0.6
2500 x 1250 x 0.6
2000 x 1000 x 0.7
2500 x 1250 x 0.7
2000 x 1000 x 0.8
2500 x 1250 x 0.8
3000 x 1250 x 0.8
3000 x 1250 x 0.9
2500 x 1250 x 1.0
3000 x 1250 x 1.2

5 bar Treadplate - alloy 5754

Size (mm)
2000 x 1000 x 2.0
2500 x 1250 x 2.0
3000 x 1500 x 2.0
2000 x 1000 x 3.0
2500 x 1250 x 3.0
3000 x 1500 x 3.0
2000 x 1000 x 4.5
2500 x 1250 x 4.5
3000 x 1500 x 4.5

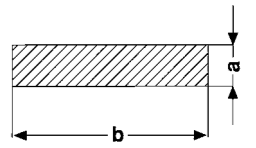
Aluminium Sheet

Sheet - 1050A 14/24

Size (mm)	Size (mm)
2000 x 1000 x 0.5	3250 x 1500 x 2.0
2500 x 1250 x 0.5	3500 x 1250 x 2.0
2000 x 1000 x 0.6	3500 x 1500 x 2.0
2500 x 1250 x 0.6	3750 x 1250 x 2.0
2000 x 1000 x 0.7	4000 x 1000 x 2.0
2500 x 1250 x 0.7	4000 x 1250 x 2.0
2000 x 1000 x 0.8	4000 x 1500 x 2.0
2500 x 1250 x 0.8	4000 x 1600 x 2.0
2000 x 1000 x 1.0	4000 x 1750 x 2.0
2500 x 1250 x 1.0	4000 x 2000 x 2.0
3000 x 1250 x 1.0	2000 x 1000 x 2.5
3000 x 1500 x 1.0	2500 x 1250 x 2.5
2000 x 1000 x 1.2	3000 x 1250 x 2.5
2500 x 1250 x 1.2	3000 x 1500 x 2.5
3000 x 1250 x 1.2	2000 x 1000 x 3.0
3000 x 1500 x 1.2	2500 x 1250 x 3.0
2000 x 1000 x 1.5	2500 x 1500 x 3.0
2500 x 1250 x 1.5	3000 x 1000 x 3.0
3000 x 1000 x 1.5	3000 x 1250 x 3.0
3000 x 1250 x 1.5	3000 x 1500 x 3.0
3000 x 1500 x 1.5	3000 x 1600 x 3.0
3500 x 1250 x 1.5	3000 x 1750 x 3.0
3750 x 1250 x 1.5	3000 x 2000 x 3.0
4000 x 1250 x 1.5	3250 x 1250 x 3.0
4000 x 1500 x 1.5	3250 x 1500 x 3.0
2000 x 1000 x 2.0	3500 x 1250 x 3.0
2500 x 1000 x 2.0	3500 x 1500 x 3.0
2500 x 1250 x 2.0	3750 x 1250 x 3.0
2500 x 1500 x 2.0	3750 x 1500 x 3.0
3000 x 1000 x 2.0	4000 x 1000 x 3.0
3000 x 1250 x 2.0	4000 x 1250 x 3.0
3000 x 1500 x 2.0	4000 x 1500 x 3.0
3000 x 1600 x 2.0	4000 x 1600 x 3.0
3000 x 1750 x 2.0	4000 x 1750 x 3.0
3000 x 2000 x 2.0	4000 x 2000 x 3.0
3250 x 1250 x 2.0	

Aluminium Flat Bar

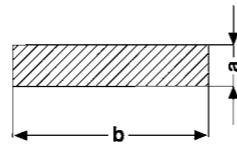
Flat bar - 6082 T6/T6511



Width (b)	Thickness (a)																
	1/8"	3/16"	5mm	6mm	1/4"	5/16"	8mm	3/8"	10mm	12mm	1/2"	15mm	5/8"	3/4"	20mm	7/8"	
3/8"		•															
1/2"	•	•			•	•		•									
15mm									•								
5/8"	•	•			•			•			•						
3/4"	•	•			•	•		•			•			•			
20mm			•	•			•		•	•			•			•	
7/8"					•			•			•						
25mm			•	•					•	•			•	•			
1"	•	•			•	•		•			•		•	•			
30mm			•	•					•	•			•			•	
1.1/4"	•	•			•	•		•			•		•	•			
35mm																•	
1.1/2"	•	•			•	•		•			•		•	•			
40mm				•			•		•	•			•			•	
1.3/4"	•	•			•			•			•		•	•			
50mm			•	•					•	•			•			•	
2"	•	•			•	•		•			•		•	•		•	
2.1/4"					•			•			•		•	•			
60mm							•		•			•				•	
2.1/2"	•	•			•			•			•		•	•			
2.3/4"																	
70mm									•	•			•			•	
3"	•	•			•	•		•			•		•	•		•	
80mm				•					•	•			•			•	
3.1/2"					•			•			•		•	•			
3.3/4"																	
100mm				•					•	•			•			•	
4"	•	•			•	•		•			•		•	•		•	
4.1/4"																	
4.1/2"																	
5"					•	•		•			•		•	•		•	
6"	•				•	•		•			•		•	•		•	
7"																	
8"								•			•		•	•		•	
10"											•						
120mm								•							•		

Aluminium Flat Bar

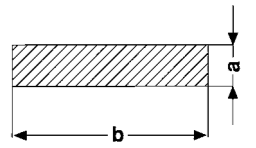
Flat bar - 6082 T6/T6511



Width (b)	Thickness (a)																	
	25mm	1"	30mm	1.1/4"	35mm	1.1/2"	40mm	1.3/4"	50mm	2"	60mm	2.1/2"	2.3/4"	3"	3.1/2"	4"	5"	
5/8"																		
3/4"																		
20mm																		
7/8"																		
25mm																		
1"																		
30mm	•																	
1.1/4"		•																
35mm																		
1.1/2"			•															
40mm	•		•		•													
1.3/4"		•		•		•												
50mm	•		•				•											
2"		•		•		•		•										
2.1/4"				•		•												
60mm							•		•									
2.1/2"		•		•		•		•		•								
2.3/4"		•						•										
70mm	•		•		•													
3"		•		•		•		•		•		•						
80mm	•		•				•		•		•							
3.1/2"		•		•		•		•		•		•						
3.3/42				•														
100mm	•		•				•		•									
4"		•		•		•		•		•		•		•		•		
4.1/4"						•							•					
4.1/2"		•		•		•		•		•		•		•		•		
5"		•		•		•		•		•		•		•		•		
6"		•		•		•		•		•		•		•		•		•
7"		•		•		•		•		•		•		•		•		•
8"		•		•		•		•		•		•		•		•		•
10"		•				•		•		•				•				
12"		•		•		•		•		•								
120mm		•		•														

Aluminium Flat Bar

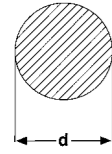
Flat bar - 2014 T6/T6511



Width (b)	Thickness (a)													
	1/4"	3/8"	1/2"	5/8"	3/4"	1"	1.1/4"	1.1/2"	1.3/4"	2"	2.1/2"	3"	4"	5"
5/8"	•													
3/4"	•													
1"	•		•	•	•	•								
1.1/8"	•													
1.1/4"					•	•								
1.1/2"	•		•		•	•	•							
2"	•	•	•		•	•	•	•		•				
2.1/4"						•								
2.1/2"						•	•	•		•				
3"			•		•	•	•	•		•	•		•	
3.1/2"						•		•		•			•	
4"						•	•	•	•	•	•	•	•	
4.1/2"						•	•							
5"							•	•	•	•	•	•	•	•
6"										•		•	•	•
7"													•	
8"										•				
12"											•			

Aluminium Round Bar

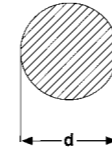
Round Bar - 2011 T3/86, 2011i T6/T8, 2014 T6, 5083, 6012i T6/T8, 6082 T6, 6262 T6/T9, 7075 T6, 6061 QAA 200/8



Diameter (d)	Alloy									
	2011 T3/T6	2011i T6/T8	2014 T6	5083	6012i T6/T8	6082 T6	6262 T6/T9	7075 T6	6061 QAA 200/8	
3/6"	•					•				
6mm	•	•								
1/4"	•		•			•		•		
5/16"	•					•				
3/8"	•		•			•				
10mm	•	•				•	•			
7/16"	•		•			•				
12mm	•					•				
1/2"	•		•	•		•	•	•		
15mm						•				
5/8"	•		•			•	•			
16mm						•				
11/16"	•									
3/4"	•		•	•		•	•	•		
20mm	•	•		•		•		•		
13/16"	•	•				•				
7/8"	•	•	•	•		•		•		
24mm						•				
25mm	•	•		•		•		•		
1"	•	•	•	•	•	•	•	•	•	
1.1/16"	•									
1.1/8"	•		•		•	•	•			
30mm				•		•	•	•		
1.3/16"	•									
1.1/4"	•	•	•	•	•	•	•	•	•	
1.3/8"	•	•	•		•	•	•			
1.1/2"	•	•	•	•	•	•	•	•	•	
40mm	•					•	•			
1.5/8"	•	•	•		•	•	•			
42mm						•				
1.3/4"	•		•	•	•	•	•	•		
1.7/8"	•		•			•				
50mm	•			•		•				
2"	•	•	•	•	•	•	•	•	•	
2.1/8"	•					•				
2.1/4"	•		•	•	•	•	•	•		
60mm	•					•				
2.3/8"	•		•			•				
2.1/2"	•	•	•	•	•	•	•	•	•	
65mm						•				
2.5/8"	•			•		•				
2.3/4"	•	•	•	•	•	•	•	•		
70mm						•				
75mm						•				
3"	•	•	•	•	•	•	•	•	•	
80mm						•				
3.1/4"	•	•	•	•	•	•	•	•		
85mm						•				
3.1/2"	•	•	•	•	•	•	•	•	•	

Aluminium Round Bar

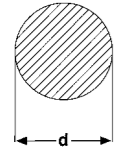
Round Bar - 2011 T3/86, 2011i T6/T8, 2014 T6, 5083, 6012i T6/T8, 6082 T6, 6262 T6/T9, 7075 T6, 6061 QAA 200/8



Diameter (d)	Alloy									
	2011 T3/T6	2011i T6/T8	2014 T6	5083	6012i T6/T8	6082 T6	6262 T6/T9	7075 T6	6061 QAA 200/8	
90mm						•				
95mm	•					•				
3.3/4"	•	•	•	•		•		•		
100mm						•		•		
4"	•	•	•	•	•	•	•	•	•	
4.1/4"	•		•			•	•	•		
110mm						•				
4.1/2"	•	•	•	•		•	•	•		
115mm				•		•				
120mm						•				
4.3/4"	•	•	•			•			•	
125mm						•				
5"	•	•	•	•		•	•	•	•	
130mm						•				
5.1/4"	•		•		•	•	•	•		
135mm						•				
5.1/2"	•		•	•	•	•		•		
140mm				•		•				
5.3/4"	•	•				•		•		
150mm						•				
155mm						•				
6"	•	•	•	•	•	•	•	•	•	
160mm				•		•				
6.1/4"	•					•				
6.1/2"	•		•			•				
6.3/4"	•	•				•				
175mm						•				
7"	•		•	•		•		•		
180mm				•		•		•		
7.1/4"	•					•				
185mm						•		•		
190mm						•				
7.1/2"			•			•			•	
7.3/4"						•				
200mm						•				
8"	•		•	•		•		•		
8.1/4"						•				
8.1/2"	•		•			•		•		
220mm						•				
8.3/4"						•				
225mm						•				
9"	•		•	•		•		•		
230mm						•				
240mm						•				
9.1/2"						•				
10"	•		•	•		•		•		
260mm						•		•		
10.1/4"						•				
10.1/2"						•				

Aluminium Round Bar

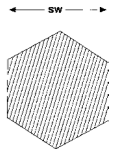
Round Bar - 2011 T3/T6, 2011i T6/T8, 2014 T6, 5083, 6012i T6/T8, 6082 T6, 6262 T6/T9, 7075 T6, 6061 QAA 200/8



Diameter (d)	Alloy								
	2011 T3/T6	2011i T6/T8	2014 T6	5083	6012i T6/T8	6082 T6	6262 T6/T9	7075 T6	6061 QAA 200/8
270mm						•			
275mm						•			
11"			•	•		•			
280mm								•	
290mm						•			
11.1/2"						•			
300mm						•			
12"			•	•		•		•	
305mm						•			
12.1/8"						•			
310mm						•			
12.1/2"						•			
13"						•			
340mm						•		•	
14"			•	•		•			
360mm						•			
15"						•		•	
400mm								•	
16"						•			
410mm				•		•		•	
18"						•			
460mm						•			
20"						•			

Aluminium Hexagon Bar

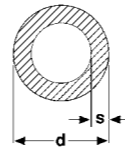
Hexagon bar - 6082 T6, 2011 T3



Size (sw)	Alloy	
	6082 T6	2011 T3
5/16"	•	
3/8"	•	
1/2"	•	•
0.562"	•	
0.60"	•	
0.625"	•	
0.71"	•	
3/4"	•	
0.82"	•	
22mm	•	
0.92"	•	
24mm	•	
1"	•	
1.1"		•
1.125"	•	
30mm	•	
1.25"	•	
1.30"	•	
1.375"	•	
1.482	•	
1.67"	•	•

Aluminium Round Tube

AlMgSi (6060) T66 - AlMgSiO₂, 5 F22

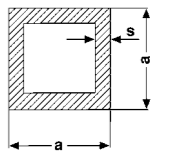


Heat-treated, extruded, in manufacturing lengths.

Size (d x s) mm	Size (d x s) mm	Size (d x s) mm
8 x 1	35 x 4	70 x 3
8 x 2.5	35 x 5	70 x 4
10 x 1	38 x 1.5	70 x 5
10 x 2	38 x 2	70 x 10
12 x 1	38 x 3	75 x 2.5
12 x 1.5	38 x 4	75 x 5
12 x 2	40 x 1.5	76 x 2.5
14 x 2	40 x 2	76 x 3
15 x 1	40 x 2.5	80 x 2
15 x 1.5	40 x 3	80 x 2.5
15 x 2	40 x 4	80 x 3
16 x 1	40 x 5	80 x 4
16 x 1.5	40 x 8	80 x 5
16 x 2	40 x 10	80 x 10
16 x 3	42 x 2	84 x 2
18 x 1	42 x 3	86 x 3
18 x 1.5	45 x 1.5	90 x 2
18 x 2	45 x 2	90 x 3
20 x 1	45 x 2.5	90 x 5
20 x 1.5	45 x 3	100 x 2
20 x 2	45 x 4	100 x 2.5
20 x 2.5	45 x 5	100 x 3
20 x 3	48 x 2	100 x 4
20 x 5	48 x 2.5	100 x 5
22 x 1.5	48 x 3	100 x 10
22 x 2	48 x 4	106 x 3
25 x 1.5	50 x 1.5	108 x 3
25 x 2	50 x 2.5	108 x 4
25 x 2.5	50 x 2.5	110 x 3
25 x 3	50 x 3	110 x 5
25 x 5	50 x 4	115 x 5
28 x 1.5	50 x 5	120 x 5
28 x 2	50 x 10	120 x 5
28 x 2.5	54 x 2	120 x 10
28 x 4	55 x 2.5	125 x 5
30 x 1.5	55 x 5	130 x 3
30 x 2	60 x 1.5	130 x 5
30 x 2.5	60 x 2	140 x 5
30 x 3	60 x 2.5	150 x 3
30 x 4	60 x 3	150 x 5
30 x 5	60 x 4	150 x 10
32 x 1.5	60 x 5	156 x 3
32 x 2	60 x 6	160 x 3
32 x 3	60 x 10	160 x 5
35 x 1.5	65 x 2	180 x 5
35 x 2	65 x 2.5	200 x 5
35 x 2.5	65 x 5	200 x 10
35 x 3	70 x 2	250 x 5

Aluminium Square Tube

AlMgSi (6060) T66 - AlMgSiO₂, 5 F22

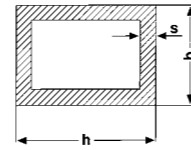


Heat-treated, extruded, in manufacturing lengths.

Size (a x s) mm
15 x 1.5
15 x 2
20 x 1.5
20 x 2
20 x 3
25 x 1.5
25 x 2
25 x 3
30 x 2
30 x 3
34 x 2
34 x 3
35 x 2
35 x 3
40 x 2
40 x 2.5
40 x 3
40 x 4
45 x 2
50 x 2
50 x 2.5
50 x 3
50 x 4
50 x 5
60 x 2
60 x 3
60 x 4
70 x 2
70 x 4
80 x 2
80 x 3
80 x 4
80 x 5
80 x 6
90 x 4
100 x 2
100 x 3
100 x 4
100 x 5
120 x 5
150 x 5

Aluminium Rectangular Tube

AlMgSi (6060) T66 - AlMgSiO, 5 F22

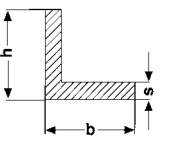


Heat-treated, extruded, in manufacturing lengths.

Size (h x b x s) mm	Size (h x b x s) mm	Size (h x b x s) mm
20 x 10 x 1.5	50 x 30 x 2	100 x 20 x 2
20 x 10 x 1.5	50 x 30 x 2.5	100 x 25 x 2
20 x 15 x 2	50 x 30 x 3	100 x 30 x 2
25 x 15 x 1.5	50 x 34 x 3	100 x 30 x 3
25 x 15 x 2	50 x 40 x 2	100 x 40 x 2
25 x 20 x 2	50 x 40 x 2.5	100 x 40 x 3
30 x 10 x 1.5	50 x 40 x 3	100 x 40 x 4
30 x 15 x 1.5	50 x 40 x 4	100 x 50 x 2
30 x 15 x 2	60 x 20 x 2	100 x 50 x 3
30 x 20 x 1.5	60 x 20 x 3	100 x 50 x 4
30 x 20 x 2	60 x 25 x 2	100 x 50 x 5
30 x 20 x 3	60 x 25 x 3	100 x 60 x 2
30 x 25 x 2	60 x 30 x 2	100 x 60 x 3
34 x 20 x 2	60 x 30 x 3	100 x 60 x 4
35 x 15 x 2	60 x 34 x 3	120 x 20 x 2
35 x 20 x 2	60 x 40 x 2	120 x 30 x 2
35 x 25 x 1.5	60 x 40 x 2.5	120 x 30 x 3
35 x 25 x 2	60 x 40 x 3	120 x 40 x 2
40 x 15 x 2	60 x 40 x 4	120 x 40 x 4
40 x 20 x 1.5	60 x 50 x 3	120 x 50 x 3
40 x 20 x 2	60 x 50 x 4	120 x 50 x 4
40 x 20 x 2.5	70 x 20 x 2	120 x 60 x 3
40 x 20 x 3	70 x 30 x 2	120 x 60 x 4
40 x 20 x 4	70 x 30 x 3	120 x 80 x 3
40 x 25 x 2	75 x 50 x 3	140 x 60 x 4
40 x 25 x 3	80 x 20 x 2	140 x 80 x 4
40 x 30 x 2	80 x 25 x 2	150 x 40 x 4
40 x 30 x 2.5	80 x 30 x 2	150 x 50 x 4
40 x 30 x 3	80 x 30 x 3	150 x 60 x 4
40 x 30 x 4	80 x 40 x 2	150 x 100 x 3
45 x 20 x 2	80 x 40 x 2.5	160 x 60 x 4
45 x 25 x 2	80 x 40 x 3	180 x 40 x 4
50 x 15 x 2	80 x 40 x 4	180 x 50 x 4
20 x 20 x 2	80 x 50 x 2	200 x 18 x 2
50 x 20 x 3	80 x 50 x 3	200 x 50 x 4
50 x 20 x 4	80 x 50 x 4	200 x 60 x 4
50 x 25 x 1.5	80 x 60 x 3	200 x 80 x 4
50 x 25 x 2	80 x 60 x 4	200 x 100 x 4
50 x 25 x 3	100 x 18 x 2	

Aluminium Angle

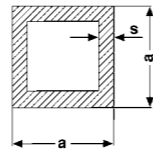
Equal angle - 6063, 6082 T6



Size (h x b)	Thickness					
	1/16"	1/8"	3/16"	1/4"	3/8"	1/2"
1/2" x 1/2"	•	•				
5/8" x 5/8"	•	•				
3/4" x 3/4"	•	•	•	•		
7/8" x 7/8"		•				
1" x 1"	•	•	•	•		
1.1/8" x 1.1/8"		•				
1.1/4" x 1.1/4"	•	•	•	•		
1.1/2" x 1.1/2"	•	•	•	•		
1.3/4" x 1.3/4"		•		•		
2" x 2"		•	•	•	•	
2.1/2" x 2.1/2"		•	•	•	•	
3" x 3"		•	•	•	•	•
4" x 4"		•		•	•	•
5" x 5"					•	
6" x 6"						•

Aluminium Box Section

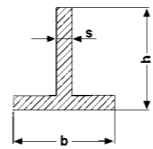
Box section - 6063, 6082 T6



Size (h x b)	Thickness/Gauge (s)		
	16swg	10swg	1/4"
1/2" x 1/2"	•		
3/4" x 3/4"	•	•	
1" x 1"	•	•	
1.1/4" x 1.1/4"	•	•	
1.1/2" x 3/4"	•	•	
1.1/2" x 1"	•	•	
1.1/2" x 1.1/2"	•	•	
1.3/4" x 1.3/4"		•	
2" x 1"	•	•	
2" x 1.1/2"		•	
2.1/2" x 1.1/2"		•	
2" x 2"	•	•	•
2.1/2" x 2.1/2"		•	
3" x 1"		•	
3" x 1.1/2"		•	
3" x 2"		•	•
3" x 3"		•	•
4" x 1"		•	
4" x 2"		•	•
4" x 4"		•	•
5" x 5"		•	
6" x 1.3/4"		•	•
6" x 2"		•	
6" x 6"			•

Aluminium Tee Section

Tee section - 6063, 6082 T6



Size (b x h)	Thickness/Gauge (s)			
	10swg	3/16"	1/4"	3/8"
3/4" x 3/4"	•			
1" x 1"	•			
1.1/2" x 1.1/2"	•	•	•	
2" x 1"	•			
2" x 1.1/2"	•			
2" x 2"	•	•	•	
3" x 3"			•	•

Stainless Steel Hot Rolled Plate

1.4301 (304), 1.4307 (304L)

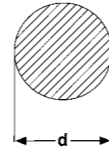
Size (mm)
2000 x 1000 x 3.0
2500 x 1250 x 3.0
3000 x 1500 x 3.0
2000 x 1000 x 4.0
2500 x 1250 x 4.0
3000 x 1500 x 4.0
2000 x 1000 x 5.0
2500 x 1250 x 5.0
3000 x 1500 x 5.0
4000 x 2000 x 5.0
2000 x 1000 x 6.0
2500 x 1250 x 6.0
3000 x 1500 x 6.0
4000 x 2000 x 6.0
2500 x 1250 x 8.0
3000 x 1500 x 8.0
2500 x 1250 x 10.0
3000 x 1500 x 10.0
2500 x 1250 x 12.0
3000 x 1500 x 12.0

1.4401 (316), 1.4404 (316L)

Size (mm)
2000 x 1000 x 3.0
2500 x 1250 x 3.0
3000 x 1500 x 3.0
2000 x 1000 x 4.0
2500 x 1250 x 4.0
3000 x 1500 x 4.0
2000 x 1000 x 5.0
2500 x 1250 x 5.0
3000 x 1500 x 5.0
2000 x 1000 x 6.0
2500 x 1250 x 6.0
3000 x 1500 x 6.0
2500 x 1250 x 8.0
3000 x 1500 x 8.0
2500 x 1250 x 10.0
3000 x 1500 x 10.0
2500 x 1250 x 12.0
3000 x 1500 x 12.0

Stainless Steel Round Bar

Stainless steel round bar - 303, 304, 316

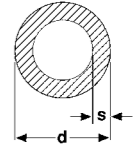


Diameter (d)	Grade		
	303 (1.4305)	304 (1.4301/07)	316 (1.4404)
2mm	•	•	•
2.3mm	•	•	•
2.5mm	•	•	•
3mm	•	•	•
1/8"	•	•	•
4mm	•	•	•
3/16"	•	•	•
5mm	•	•	•
6mm	•	•	•
1/4"	•	•	•
5/6"	•	•	•
8mm	•	•	•
3/8"	•	•	•
10mm	•	•	•
7/16"	•	•	•
12mm	•	•	•
1/2"	•	•	•
14mm	•	•	•
15mm	•	•	•
5/8"	•	•	•
16mm	•	•	•
18mm	•	•	•
3/4"	•	•	•
20mm	•	•	•
22mm	•	•	•
7/8"	•	•	•
25mm	•	•	•
1"	•	•	•
26mm	•	•	•
28mm	•	•	•
1.1/8"	•	•	•
30mm	•	•	•
1.1/4"	•	•	•
32mm	•	•	•
1.3/8"	•	•	•
35mm	•	•	•
38mm	•	•	•
1.1/2"	•	•	•
40mm	•	•	•
42mm	•	•	•
1.3/4"	•	•	•
45mm	•	•	•
1.7/8"	•	•	•
50mm	•	•	•

Diameter (d)	Grade		
	303 (1.4305)	304 (1.4301/07)	316 (1.4404)
2"	•	•	•
2.1/8"	•	•	•
55mm	•	•	•
2.1/4"	•	•	•
60mm	•	•	•
2.3/8"	•	•	•
2.1/2"	•	•	•
65mm	•	•	•
2.3/4"	•	•	•
70mm	•	•	•
75mm	•	•	•
3"	•	•	•
80mm	•	•	•
3.1/4"	•	•	•
85mm	•	•	•
3.1/2"	•	•	•
90mm	•	•	•
95mm	•	•	•
3.3/4"	•	•	•
100mm	•	•	•
4"	•	•	•
4.1/4"	•	•	•
4.1/2"	•	•	•
115mm	•	•	•
120mm	•	•	•
125mm	•	•	•
5"	•	•	•
5.1/4"	•	•	•
5.1/2"	•	•	•
140mm	•	•	•
5.3/4"	•	•	•
150mm	•	•	•
6"	•	•	•
165mm	•	•	•
180mm	•	•	•
190mm	•	•	•
200mm	•	•	•
230mm	•	•	•
250mm	•	•	•
270mm	•	•	•
280mm	•	•	•
290mm	•	•	•
300mm	•	•	•
400mm	•	•	•

Stainless Steel Round Tube

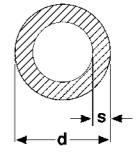
1.4301 (304) - bright polished



Size (mm)
19 o/d x 1.5mm
25 o/d x 1.2mm
25 o/d x 1.5mm
32 o/d x 1.5mm
38 o/d x 1.5mm
50 o/d x 1.5mm

Stainless Steel Pipe

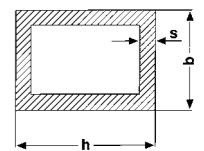
1.4306 (304L), 1.4404 (316L)



Size (in)	sch10s	sch40s
1/2 nb	•	•
3/4 nb	•	•
1 nb	•	•
1.1/4 nb	•	•
1.1/2 nb	•	•
2 nb	•	•
2.1/2 nb	•	•
3 nb	•	•
3.1/2 nb	•	•
4 nb	•	•
5 nb	•	•
6 nb	•	•
8 nb	•	•
10 nb	•	•
12 nb	•	•

Stainless Steel Rectangular Tube

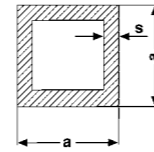
1.4301 (304)



Size (mm) (h x b x s)
40 x 20 x 1.5
50 x 25 x 1.5
50 x 25 x 2
80 x 40 x 2
80 x 40 x 3
100 x 50 x 2
100 x 50 x 3

Stainless Steel Square Tube

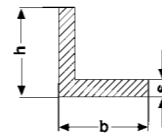
1.4301 (304) - dull polished, 220 grit



Size (mm) (a x a x s)
20 x 20 x 1.2
20 x 20 x 1.5
25 x 25 x 1.2
25 x 25 x 1.5
25 x 25 x 2.0
25 x 25 x 3.0
30 x 30 x 1.2
30 x 30 x 1.5
30 x 30 x 2.0
40 x 40 x 1.2
40 x 40 x 1.5
40 x 40 x 2.0
40 x 40 x 3.0
50 x 50 x 1.5
50 x 50 x 2.0
50 x 50 x 3.0
60 x 60 x 3.0
80 x 80 x 2.0
80 x 80 x 3.0
100 x 100 x 3.0

Stainless Steel Angle

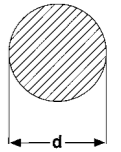
1.4301 (304)



Size (mm) (h x b x s)
20 x 20 x 3
25 x 25 x 3
30 x 30 x 3
40 x 40 x 3
50 x 50 x 3
25 x 25 x 5
30 x 30 x 5
40 x 40 x 5
50 x 50 x 5
25 x 25 x 6
30 x 30 x 6
40 x 40 x 6
50 x 50 x 6

Brass Round Bar

Brass round bar - CZ121



We carry a limited range of Flat Bar, Sheet, Hexagon and Hollows in: Brass, Copper and Phosphor Bronze products.

If they are not in stock we can normally source these products quickly.

Diametre (d)	CZ121	Diametre (d)	CZ121
2mm	•	1.1/8"	•
3mm	•	30mm	•
1/8"	•	1.1/4"	•
4mm	•	1.5/16"	•
3/16"	•	1.3/8"	•
5mm	•	1.1/2"	•
7/32"	•	1.5/8"	•
6mm	•	1.11/16"	•
1/4"	•	1.3/4"	•
9/32"	•	1.7/8"	•
5/16"	•	2"	•
8mm	•	2.1/16"	•
3/8"	•	2.1/8"	•
10mm	•	2.1/4"	•
7/16"	•	2.3/8"	•
12mm	•	2.1/2"	•
1/2"	•	2.5/8"	•
9/16"	•	2.3/4"	•
15mm	•	3"	•
5/8"	•	3.1/4"	•
11/16"	•	3.1/2"	•
3/4"	•	4"	•
20mm	•	4.1/2"	•
7/8"	•	5"	•
25mm	•	5.1/2"	•
1"	•	6"	•

C210 (5083) Aluminium Cast Block

Typical values of aluminium cast plate/block - C210 (5083)

Cast Block C210 (5083) is stress relieved by a special heat treatment process which eliminates the necessity for further annealing after machining. Continual ultrasonic and micro structural examinations guarantee a constant quality standard. This plate is supplied as a sawn block on 6 sides. Cast block C210 (5083) is typically used for: injection moulds for plastic prototypes, deep drawing moulds, casting moulds, foaming and blowing moulds for low pressure processes and Styrofoam moulds.

Mechanical Properties	
Tensile Strength R_m (Mpa)	typical 230 - 250
Yield Strength $R_{p0.2}$ (Mpa)	≥ 125
Modulus of Elasticity (Mpa)	~ 70000
Elongation A_5 (%)	≥ 10
Brinell Hardness HBS 2.5/62.5/30	≥ 69

Physical Properties	
Coefficient of Thermal Expansion ($10^{-6}/K$)	24.2
Thermal Conductivity (W/mK)	110 - 140
Electrical Conductivity (MS/m)	16- 19
Density (g/cm^3)	2.66

Tolerances	
Length & Width	-0/+6mm
Thickness	Up to 600mm - 0/ +10mm

General Information	
Surface	Sawn on 6 faces
Class of alloy	Non heat-treatable
Temper	Homogenized & stress relieved

Size Range (mm)	
Thickness	20 - 1000
Length	Up to 4500
Width	Up to 2500
Available on request	

C250 Aluminium Cast Machined Tooling Plate

Typical values of aluminium cast plate - C250

C250 is manufactured from a 5083 type alloy, and is machined to industry standard thickness and flatness tolerances and polycoated both sides. Special casting and heat treatment techniques make this plate extremely stress free whilst retaining 85-90% of the strength of rolled plate. It will retain its flatness and dimensional tolerances after machining or even after repeated heating and cooling. Like rolled 5083, C250 has excellent machining, welding and anodising properties. However, we recommend that you do not etch prior to anodising as this adversely affects the grain structure on the surface of the plate.

Mechanical Properties	
Tensile Strength R_m (Mpa)	typical 275
Yield Strength $R_{p0.2}$ (Mpa)	≥ 125
Modulus of Elasticity (Mpa)	~ 7000
Elongation A_5 (%)	≥ 15
Brinell Hardness HBS 2.5/62.5/30	≥ 75

Physical Properties	
Coefficient of Thermal Expansion ($10^{-6}/K$)	23.3
Thermal Conductivity (W/mK)	110-130
Electrical Conductivity (MS/m)	16.2
Specific Heat Capacity (25-100°C) (J/kgK)	900
Density (g/cm^3)	2.66

Chemical Composition (%)			
Magnesium	Manganese	Others	Aluminium
4 - 5	< 1	1.5	Balance

Tolerances			
Flatness	55mm thick +/- 0.8mm	6mm - 1/2" thick +/- 0.4mm	1/2" thick +/- 0.13mm
Thickness	+/- 0.1mm		
Surface Roughness	better than 0.40 μ m		

C330 Aluminium Cast Machined Plate

Typical values of aluminium cast plate - C330

C330 is manufactured from a special type 7000 series alloy that has been heat treated solution annealed, quenched and artificially aged. This plate is machined to industry standard thickness and flatness tolerances and polycoated both sides. Precision cast machined plate C330 has been developed to give higher strengths than C250 tooling plate but still stress relieved. The cast precision machined plate C330 is available for a wide range of applications where until now, complex manufactured precision machined rolled plates are utilized.

Mechanical Properties	
Tensile Strength R_m (MPa)	typical 320
Yield Strength $R_{p0.2}$ (MPa)	≥ 260
Modulus of Elasticity (MPa)	~ 70000
Elongation A_5 (%)	≥ 1.7
Brinell Hardness HBS 2.5/62.5/30	≥ 108

Physical Properties	
Coefficient of Thermal Expansion ($10^{-6}/K$)	23.0
Thermal Conductivity (W/mK)	125-155
Electrical Conductivity (MS/m)	17-21
Density (g/cm^3)	2.76

Tolerances		
Flatness	10mm - 15mm thick +/- 0.4mm	>15mm thick +/- 0.25mm
Thickness	+/- 0.1mm	
Surface Roughness	0.40 μ m	

Size Range (mm)							
Thick-ness	10	12	15	20	30	40	50
Length							Up to 3000
Width							Up to 1270
Available on request							

C330R Aluminium Cast Block

Typical values of aluminium cast plate - C330R

C330R is manufactured from a special type 7000 series alloy that has been heat treated solution annealed, quenched and artificially aged. This plate is supplied as a sawn block on 6 sides and has a surface roughness R_a approx of 300 μ m. This newly developed Aluminium Cast plate offers extremely high-strength values. It has been developed for applications which require very high stress relief combined with high strength. The high temperature strength of C330R allows operating temperatures of up to 120°C and the excellent core strength ensures the high wear/abrasion security of moulds and construction units.

Mechanical Properties	
Tensile Strength R_m (MPa)	typical 320
Yield Strength $R_{p0.2}$ (MPa)	≥ 260
Modulus of Elasticity (MPa)	~ 70000
Elongation A_5 (%)	≥ 1.7
Brinell Hardness HBS 2.5/62.5/30	≥ 108

Physical Properties	
Coefficient of Thermal Expansion ($10^{-6}/K$)	23
Thermal Conductivity (W/mK)	125 - 155
Electrical Conductivity (MS/m)	17 - 21
Density (g/cm^3)	2.76

Cutting Tolerances	
Thickness up to 100mm	-0/+2.5mm
Length/Width	According to DIN 2768
Thickness above 100mm all dimensions	-0/+6mm

Size Range (mm)	
Thickness	20 - 100
Length	Up to 3500
Width	Up to 1600
Available on request	

HSP Aluminium Rolled Machined Plate

Typical values of rolled tooling plate - HSP

HSP Rolled Tooling plate is manufactured from 5083 alloy and as you'd expect from a tooling plate; produced to extremely good dimensional tolerances, before being polycoated with 100micron plastic on both sides. HSP is processed using a special rolling technique, then heat treated to give it very low residual stresses compared to other rolled plate and characteristics that rival those of Cast Tooling Plate. Being based on a 5083 alloy, HSP has excellent corrosion resistant properties and is ideally suited for machining and welding and being a rolled plate means it is stronger, harder and has better impact resistance than cast plate.

Mechanical Properties		
Tensile Strength (MPa)		typical 275 - 350
Yield Strength (MPa)		≥ 125
Modulus of Elasticity (MPa)		~ 71000
Elongation (Min) A_{50mm}	6mm - 12.5mm	16
	12.5mm - 50mm	15
Brinell Hardness (HB)		75

Physical Properties	
Coefficient of Thermal Expansion ($10^{-6}/K$)	23.8
Thermal Conductivity (W/mK)	120
Electrical Conductivity (MS/m)	15 - 17
Specific Heat Capacity (J/kgK)	960
Density (g/cm ³)	2.66

Chemical Composition (%)			
Magnesium	Manganese	Others	Aluminium
4 - 4.9	0.4 - 1	1.75	Balance

Tolerances		
Flatness	≥ 15mm thick +/- 0.35mm/Mtr	>15mm thick +/- 0.2mm/Mtr
Thickness	+/- 0.1mm	
Surface Roughness	R_a Maximum 0.64µm	

2011i Free Machining Aluminium Bar

Typical values of aluminium alloy - 2011i T6 (extruded)/T8 (cold drawn)

Alloy 2011i conforming to ROHS and ELV is the most free-machining of common aluminium alloys. It is renowned for its excellent machining characteristics and short chips. In the electronics industry environment friendly and technologically advanced 2011i alloy is a direct replacement for 2011 alloy. Lead content is less than 0.4%. It is reduced by using tin and bismuth but it retains all the high quality properties and is a technical equivalent to the original 2011 alloy.

Temper	Dimension		Mechanical Properties				
	(mm)	inch (")	R_m min. MPa	$R_{p0.2}$ min. MPa	A_5 % min.	A_{20}	HB min.
T6	20 to 75	0.788 to 2.953	310	230	8	10	90
T6	75 to 180	2.953 to 7.087	295	195	8	10	90
T8	5 to 76.20	0.197 to 3.00	370	270	10	12	110

ASTM EN	Chemical Composition (%)													Other	Additional
	Alloy	Impol	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total		
2011i	D71	0.4	0.7	5.0-6.0	-	-	-	0.30	-	0.05	0.05	0.15		Sn=0.5-0.6 Bi=0.5-0.6	-

Temper	Comparative Characteristics of 2011i						
	Corrosion resistance		Cold work-ability	Anodizing response	Brazability	Weldability	
	General	Stress				Gas	Arc
T6	D	B	A	C	D	D	D
T8	D	B	A	C	D	D	D

Rating: A=Excellent, B=Good, C=Fair, D=Poor

6012i Aluminium Free Machining Anodizing Grade

Typical values of aluminium alloy - 6012i T6 (extruded)/T8 (cold drawn)

Alloy 6012i conforming to ROHS and ELV is a direct replacement for alloy 6012 and patented in the USA and Europe with all its technical properties. 6012i has been developed especially for the electronics industry and retains all technological properties of the original 6012. It is renowned for good machining characteristics and excellent anodising response. It is therefore suitable for automotive brake components, hydraulic valve blocks and many other applications.

Temper	Dimension		Mechanical Properties					HB min.
			R _m min.	R _{p0.2} min.	A ₅	A ₂	%	
			MPa	MPa	% min.			
T6	20 to 150	0.788 to 5.906	310	260	8	10	80	
T6	150 to 180	5.906 to 7.087	260	240	8	10	80	
T8	5 to 76.2	0.197 to 3.000	345	315	4	5	80	

ASTM EN	Chemical Composition (%) Alloy													
	Impol	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Each	Total	Other	Additional
	6012i	AC60	0.6-1.4	0.5	0.4	0.4-1.0	0.6-1.2	0.3	0.30	0.2	-	0.05	0.15	Sn=0.7-0.8 Bi=0.7-0.8

Temper	Comparative Characteristics of 2011i						
	Corrosion resistance		Cold workability	Anodizing response	Brazeability	Weldability	
	General	Stress				Gas	Arc
T6	B	A	B	A	B	B	B
T8	B	A	B	A	B	B	B

Rating: A=Excellent, B=Good, C=Fair, D=Poor

Aluminium Sheet, Coil & Plate Alloy 7075

Typical values of aluminium sheet, coil and plate - 7075

The T6 and T651 tempers have fair machinability, resistance welding and corrosion resistance ratings. This alloy is heavily utilized by the aircraft and ordnance industries because of its superior strength.

Mechanical Properties

Temper	Tensile (500" Dia Specimen)					Hardness Brinell 500kg 10mm	Shear		Fatigue*		Modulus	
	Ultimate		Yield		Elongation/4D %		Ultimate Shearing Strength	Endurance Limit - R.R. Moore Type		KSI x 10 ³	Gpa	
	KSI	MPa	KSI	MPa				KSI	MPa			
T6, T651	70	483	60	414	13	135	42	290	18	125	10.6	73.1

* 5 x 10E8 cycles of reversed stress

Physical Properties

Characteristic	English	Metric
Nominal Density (68 °F/20 °C)	0.101 lbs/in ³	2.80 °C Mg/m ³
Melting Range	990 °F - 1175 °F	532 °C - 635 °C
Specific Heat (212 °F/100 °C)	0.23 BTU/lb - °F	960 J/kg - °K
Coefficient of Thermal Expansion	Linear 68 °F - 212 °F 20 °C - 100 °C	13.0 micro in/in - °F 23.4 micro m/m - °K
	Volumetric 68 °F/20 °C	3.78 x 10 ⁻⁵ in ³ /in ³ - °F 68 x 10 ⁻⁶ m ³ /m ³ - °K
Thermal Conductivity (68 °F/20 °C)	T651 75 BTU/ft - hr - °F	130 W/m - °K
Electrical Conductivity (68 °F/20 °C)	Equal Volume	T651 33% IACS
	Equal Weight	T651 05% IACS

Chemical Composition

Weight %	Others									
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Each	Total
	Minimum	-	-	1.2	-	2.1	0.18	5.1	-	-
Maximum	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15

Comparative Characteristics

Temper	Corrosion Resistance		Cold Workability	Machinability	Anodise Response	Brazability	Weldability		
	General	Stress					Gas	Arc	Spot
	T6, T651	D	C	D	B	C	D	D	B

Rating: A=Excellent, B=Good, C=Fair, D=Poor

Aluminium Sheet, Coil & Plate Alloy 2014

Typical values of aluminium sheet, coil and plate - 2014

Alloy 2014 is commonly used for aerospace components and fittings due to its high strength. Other applications include; military vehicles, bridges, weapons manufacture and structural applications. Alloy 2014 has very high strength and very good machining characteristics.

Mechanical Properties

Thickness	0.2% Proof	Tensile	Elongation	Hardness
1.5 - 6.0mm	390 MPa	440 MPa	7% (A50)	133 HBS
6.0 - 12.5mm	395 MPa	450 MPa	7% (A50)	135 HBS
12.5 - 40.0mm	400 MPa	460 MPa	6% (A)	138 HBS
40.0 - 60.0mm	390 MPa	450 MPa	5% (A)	135 HBS
60.0 - 80.0mm	380 MPa	435 MPa	4% (A)	131 HBS
80.0 - 100.0mm	360 MPa	420 MPa	4% (A)	126 HBS
100.0 - 120.0mm	350 MPa	410 MPa	4% (A)	123 HBS

Chemical Composition (%)

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others (each)	Others (total)	Aluminium
0.15-1.2	0.7	3.9-5.0	0.40-1.2	0.20-0.8	0.10	0.25	0.15	0.05	0.15	Remainder

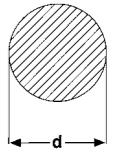
Comparative Characteristics

Forming	Machinability	Weldability	Brazeability	Protective Anodising	Aesthetic Anodising	Temper	Mechanical Properties	
							Restrict Min N/mm	Stress Min N/mm
B	B	D	D	C	D	T6	370	415
						T651	370	435

Rating: A=Excellent, B=Good, C=Fair, D=Poor

Aluminium Rod & Bar Alloy 7075

Typical values of aluminium rod and bar - 7075



The T6 and T651 tempers have fair machinability, resistance welding and corrosion resistance ratings. This alloy is heavily utilized by the aircraft and ordnance industries because of its superior strength.

Applicable Specifications

Cold Finished	Extruded
ASTM B211	ASTM B221
AMS-QQ-A-225/9	AMS-QQ-A-200/11
AMS 4187	AMS 4154
	AMS 4166
AMS 4122	AMS 4167
AMS 4123	AMS 4168
AMS 4124	AMS 4169

Mechanical Properties

Temper	Tensile (500" Dia. Specimen)				Hardness Brinell 500 kg 10mm	Shear		Fatigue*		Modulus		
	Ultimate	Yield	Elongation/4D			Ultimate Shearing Strength		Endurance Limit - R.R. Moore Type		Modulus of Elasticity		
	KSI	MPa	KSI	MPa	%	KSI	MPa	KSI	MPa	KSI x 10 ³	Gpa	
0	33	228	15	103	17	60	22	152		10.3	71.0	
T6, T651	83	572	73	503	11	150	48	331	23	158	10.3	71.0

* 5 x 10E8 cycles of reserved stress

Physical Properties

Characteristic	English	Metric
Nominal Density (68 °F/20 °C)	0.101 lbs/in ³	2.80 Mg/m ³
Melting Range	990 °F - 1175 °F	532 °C - 635 °C
Specific Heat (212 °F/100°C)	0.23 BTU/lb - °F	960 J/kg - °K
Coefficient of Thermal Expansion	Linear 68 °F - 212 °F 20 °C - 100 °C	13.0 micro in/in - °F 23.4 micro m/m - °K
	Volumetric 68 °F/20 °C	3.78 x 10 ⁻⁵ in ³ /in ³ - °F 68 x 10 ⁻⁵ m ³ /m ³ - °K
Thermal Conductivity (68 °F/20 °C)	T6, T651 75BTU/ft - hr - °F	130 W/m - °K
Electrical Conductivity (68 °F/ 20 °C)	Equal Volume T6, T651	33% IACS
	Equal Weight T6, T651	105 IACS

Chemical Composition

Weight %	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
									Each	Total
Minimum			1.20		2.10	0.18	5.10			
Maximum	0.40	0.50	2.00	0.30	2.90	0.28	6.10	0.20	0.05	0.15

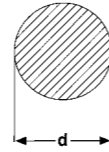
Comparative Characteristics

Temper	Corrosion Resistance		Cold Workability	Machinability	Anodise Response	Brazeability	Weldability		
	General	Stress					Gas	Arc	Spot
T6, T651	C	C	D	C	B	D	D	D	B

Rating: A=Excellent, B=Good, C=Fair, D=Poor

Aluminium Rod & Bar Alloy 2014

Typical values of aluminium rod and bar - 2014



One of the strongest heat-treatable alloys for screw machine applications. This alloy, while commonly found in forging applications, offers good machinability and high strength. Corrosion resistance is only fair; however weldability is good with arc and resistance methods. In many applications this alloy can be substituted for 2024.

Applicable Specifications

Cold Finished	Extruded
ASTM B211	ASTM B221
AMS-QQ-A-225/4	AMS-QQ-A-200/2
AMS 4121	AMS 4153

Mechanical Properties

Temper	Tensile (500" Dia. Specimen)					Hardness Brinell 500kg 10mm	Shear		Fatigue*		Modulus	
	Ultimate		Yield		Elongation/4D %		Ultimate Shearing Strength		Endurance Limit - R.R. Moore Type		Modulus of Elasticity	
	KSI	MPa	KSI	MPa			KSI	MPa	KSI	MPa	KSI x 10 ³	Gpa
T6, T651	70	483	60	414	13	135	42	290	18	125	10.6	73.1

* 5 x 10E8 cycles of reversed stress

Physical Properties

Characteristic	English	Metric
Nominal Density (68°F/20 °C)	0.101 lbs/in ³	2.80 Mg/m ³
Melting Range	945 °F - 1180 °F	507 °C - 638 °C
Specific Heat (212 °F/100 °C)	-	-
Coefficient of Thermal Expansion	Linear 68 °F - 212 °F 20 °C - 100 °C	12.5 micro in/in - °F 22.5 micro m/m - °K
	Volumetric 68 °F/20 °C	3.62 x 10 ⁻⁵ in ³ /in ³ - °F 65.1 x 10 ⁻⁶ m ³ /m ³ - °K
Thermal Conductivity (68 °F/20 °C)	O Temper	111 BTU/ft - hr - °F 192 W/m - °K
	T6, T651	89.5 BTU/ft - hr - °F 155 W/m - °K
Electrical Conductivity (68 °F/20 °C)	Equal Volume	O Temper 50% IACS
	Equal Weight	T6, T651 40% IACS
		O Temper 159% IACS
		T6, T651 127% IACS

Chemical Composition

Weight %	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
									Each	Total
Minimum	0.50	-	3.9	0.40	0.20	-	-	-	-	-
Maximum	1.2	0.7	5.0	1.2	0.8	0.10	0.25	0.15	0.05	0.15

Comparative Characteristics

Temper	Corrosion Resistance		Cold Workability	Machinability	Anodise Response	Brazability	Weldability	
	General	Stress					Gas	Arc
T6, T651	D	C	D	B	C	F	F	B

Rating: A=Excellent, B=Good, C=Fair, D=Poor

Aluminium Extruded Diameter Tolerances

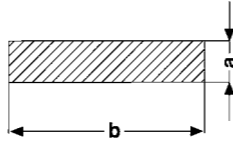
According to EN 755-3:1995

Diameter	Extruded diameter tolerances	
	Alloy 6082	Alloys 2011, 2014, 5083 & 7075
8 - 18	±0.22	±0.30
18 - 25	±0.25	±0.35
25 - 40	±0.30	±0.40
40 - 50	±0.35	±0.45
50 - 65	±0.40	±0.50
65 - 80	±0.45	±0.70
80 - 100	±0.55	±0.90
100 - 120	±0.65	±1.00
120 - 150	±0.80	±1.20
150 - 180	±1.00	±1.40
180 - 220	±1.15	±1.70
220 - 270	±1.30	±2.00
270 - 320	±1.60	±2.50

Dimensions in millimeters

Aluminium Flat Bar

Tolerances



Scope

This Part of EN 755 specifies the tolerances on dimensions and form for aluminium and aluminium alloy extruded rectangular bars having thicknesses in the range from 2mm up to 240mm and widths in the range from 10mm up to 600mm.

Tolerances on dimensions and form

Thickness and width

The tolerances on thickness and width are specified in tables 1 and 2. For the purposes of this standard the alloys are distributed into two groups which correspond to varying difficulty when manufacturing the products.

Corner radii

Maximum corner radii are specified in table 3.

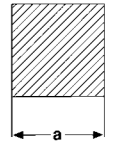
Dimensions in millimetres			
Thickness t	Maximum corner radii		
	Over	Up to	Alloy group II
≥2	10	0.6	1.0
10	30	1.0	1.5
30	80	1.8	2.5
80	120	2.0	3.0
120	180	2.5	4.0
180	240	3.5	5.0

Dimensions in millimetres											
Width w			Thickness t tolerances for thickness ranges								
Over	Up to	Tolerances	2 ≤ t ≤ 6	6 < t ≤ 10	10 < t ≤ 18	18 < t ≤ 30	30 < t ≤ 50	50 < t ≤ 80	80 < t ≤ 120	120 < t ≤ 180	180 < t ≤ 240
≥10	18	±0.25	±0.20	±0.25	±0.25	-	-	-	-	-	-
18	30	±0.30	±0.20	±0.25	±0.30	±0.30	-	-	-	-	-
30	50	±0.40	±0.25	±0.25	±0.30	±0.35	±0.40	-	-	-	-
50	80	±0.60	±0.25	±0.30	±0.35	±0.40	±0.50	±0.60	-	-	-
80	120	±0.80	±0.30	±0.35	±0.40	±0.45	±0.60	±0.70	±0.80	-	-
120	180	±1.0	±0.40	±0.45	±0.50	±0.55	±0.60	±0.70	±0.90	±1.0	-
180	240	±1.4	-	±0.55	±0.60	±0.65	±0.70	±0.80	±1.0	±1.2	±1.4
240	350	±1.8	-	±0.65	±0.70	±0.75	±0.80	±0.90	±1.1	±1.3	±1.5
350	450	±2.2	-	-	±0.80	±0.85	±0.90	±1.0	±1.2	±1.4	±1.6
450	600	±3.0	-	-	-	-	±0.90	±1.0	±1.4	-	-

Dimensions in millimetres											
Width w			Thickness t tolerances for thickness ranges								
Over	Up to	Tolerances	2 ≤ t ≤ 6	6 < t ≤ 10	10 < t ≤ 18	18 < t ≤ 30	30 < t ≤ 50	50 < t ≤ 80	80 < t ≤ 120	120 < t ≤ 180	180 < t ≤ 240
≥10	18	±0.35	±0.25	±0.30	±0.35	-	-	-	-	-	-
18	30	±0.40	±0.25	±0.30	±0.40	±0.40	-	-	-	-	-
30	50	±0.50	±0.30	±0.30	±0.40	±0.50	±0.50	-	-	-	-
50	80	±0.70	±0.30	±0.35	±0.45	±0.60	±0.70	±0.70	-	-	-
80	120	±1.0	±0.35	±0.40	±0.50	±0.60	±0.70	±0.80	±1.0	-	-
120	180	±1.4	±0.45	±0.50	±0.55	±0.70	±0.80	±1.0	±1.1	±1.4	-
180	240	±1.8	-	±0.60	±0.65	±0.70	±0.90	±1.1	±1.3	±1.6	±1.8
240	350	±2.2	-	±0.70	±0.75	±0.80	±0.90	±1.2	±1.4	±1.7	±1.9
350	450	±2.8	-	-	±0.90	±1.0	±1.1	±1.4	±1.8	±2.1	±2.3
450	600	±3.5	-	-	-	-	±1.2	±1.4	±1.8	-	-

Aluminium Square Bar

Tolerances



Scope

This Part of EN 755 specifies the tolerances on dimensions and form for aluminium and aluminium alloy extruded square bars having widths across flats from 10mm up to 220mm.

Tolerances on dimensions and form

Width across flats

The tolerances on width across flats are specified in table 1.

For the purposes of this standard the alloys are distributed into two groups which correspond to varying difficulty when manufacturing the products.

Dimensions in millimetres			
Width across flats S		Tolerances	
Over	Up to	Alloy group I	Alloy group II
≥10	18	±0.22	±0.30
18	25	±0.25	±0.35
25	40	±0.30	±0.40
40	50	±0.35	±0.45
50	65	±0.40	±0.50
65	80	±0.45	±0.70
80	100	±0.55	±0.90
100	120	±0.65	±1.0
120	150	±0.80	±1.2
150	180	±1.0	±1.4
180	220	±1.15	±1.7

Corner radii

Maximum corner radii are specified in table 2.

Dimensions in millimetres			
Width across flats S		Maximum corner radii	
Over	Up to	Alloy group I	Alloy group II
≥10	25	1.0	1.5
25	50	1.5	2.0
50	80	2.0	3.0
80	120	2.5	3.0
120	180	2.5	4.0
180	220	3.5	5.0

Squareness

Squareness tolerances are specified in table 3.

Dimensions in millimetres		
Width across flats S		Maximum deviation from square Z
Over	Up to	
≥10	100	0.01 x width
100	180	1.0
180	220	1.5

Aluminium Tube

Tolerances

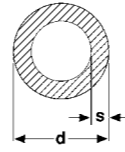


Table 1 - Alloy Groups

Group	Alloy Groups
Group 1	EN AW-1050A, EN AW-1070A, EN AW-1200, EN AW-1350 EN AW-3003, EN AW-3103 EN AW-5005, EN AW-5005A EN AW-6101A, EN AW-6101B, EN AW-6005, EN AW-6005A EN AW-6106, EN AW-6060, EN AW-6063, EN AW-6063A, EN AW-6463
Group 2	EN AW-2007, EN AW-2011, EN AW-2011A, EN AW-2014, EN AW-2014A, EN AW-2017A, EN AW-2024, EN AW-2030 EN AW-5019 ¹⁾ , EN AW-5051A, EN AW-5251, EN AW-5052, EN AW-5154A, EN AW-5454, EN AW-5754, EN AW-5083, EN AW-5086 EN AW-6012, EN AW-6018, EN AW-6351, EN AW-6061, EN AW-6261, EN AW-6262, EN AW-6081, EN AW-6082, EN AW-7003, EN AW-7005, EN AW-7020, EN AW-7022, EN AW-7049A, EN AW-7075

¹⁾ EN AW-5019 is the new designation for EN AW-5056A.

Table 2 - Tolerances On Diameter For Round Tube

Diameter (OD or ID)		Tolerance On Diameter				Dimensions in millimeters
Over	Up to and including	Maximum allowable deviation of mean diameter from specified diameter ⁶⁾	Maximum allowable deviation of diameter at any point from specified diameter ¹⁾			
			Non-annealed and non heat treated tube ²⁾	Heat treated tube ³⁾	Annealed tube ⁴⁾	
≥ 8	18	±0.25 ⁵⁾	±0.40 ⁵⁾	±0.60 ⁵⁾	±1.5 ⁵⁾	
18	30	±0.30	±0.50	±0.70	±1.8	
30	50	±0.35	±0.60	±0.90	±2.2	
50	80	±0.40	±0.70	±1.1	±2.6	
80	120	±0.60	±0.90	±1.4	±3.6	
120	200	±0.90	±1.4	±2.0	±5.0	
200	350	±1.4	±1.9	±3.0	±7.6	
350	450	±1.9	±2.8	±4.0	±10.0	

¹⁾ Not applicable to tubes having a wall thickness less than 2.5% of the specified outside diameter. The tolerance for tubes with wall thickness less than 2.5% of the specified outside diameter shall be determined by multiplying the applicable tolerance as follows:

- wall thickness over 2.0% up to and including 2.5% of outside diameter: 1.5 x tolerance;
- wall thickness over 1.5% up to and including 2.0% of outside diameter: 2.0 x tolerance;
- wall thickness over 1.0% up to and including 1.5% of outside diameter: 3.0 x tolerance;
- wall thickness over 0.5% up to and including 1.0% of outside diameter: 4.0 x tolerance.

²⁾ Applies to all alloys in F or H112 tempers.

³⁾ Applies to all alloys in T4, T5, T6, T64, T66 and Tx511 tempers.

⁴⁾ Applies to all alloys in O, H111 and Tx510 tempers.

⁵⁾ This tolerance applies for outside diameter only, i.e. tube in this size range can only be specified as "Outside Diameter x Wall Thickness".

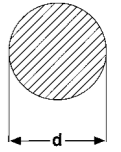
⁶⁾ Not applicable to Tx510 or Tx511 tempers.

Table 3 - Tolerances On Wall Thickness For Round Tubes

Over	Nominal wall thickness t (mm)	Up to and including	Tolerance on wall thickness measured at any point (%)
≥ 0.5	2		±10
2	3		±9
3	-		±8

Stainless Steel Round Bar

Finish & Tolerances



Supplied in 3 - 4 metre random lengths or as cut billets.

Up to 3/4" dia:	Bright Drawn h9
From 7/8" to 4" dia:	Peeled h10
Above 4" dia:	Rough Peeled K11.K12 (-0/+1 to 2mm)

Tolerances can vary, please ask for confirmation.

Diameter (mm)	Tolerances (mm)			
	h8	h9	h10	h11
Up to 3	-0.014	-0.025	-0.040	-0.060
3-6	-0.018	-0.030	-0.048	-0.075
6-10	-0.022	-0.036	-0.058	-0.090
10-18	-0.027	-0.043	-0.070	-0.110
18-30	-0.033	-0.052	-0.084	-0.130
30-50	-0.039	-0.062	-0.100	-0.160
50-80	-0.046	-0.074	-0.120	-0.190
80-120	-0.054	-0.087	-0.140	-0.220
120-180	-0.063	-0.100	-0.160	-0.250

Stainless Steel Hot Rolled Sheet or Plate

Thickness & Flatness Tolerances

Thickness	Width of plate			Dimensions in millimeters
	Up to 1250mm	1250mm - 1600mm	1600mm - 2000mm	
2.5 - 4	±0.28	±0.28	±0.32	
4 - 5	±0.30	±0.30	±0.35	
5 - 6	±0.32	±0.32	±0.40	
6 - 8	±0.35	±0.40	±0.40	
8 - 10	±0.45	±0.50	±0.50	
10 - 15	±0.50	±0.60	±0.65	
15 - 20	±0.60	±0.70	±0.75	
20 - 30	±0.65	±0.75	±0.85	
30 - 40	±0.75	±0.85	±1.00	
40 - 50	±0.90	±1.0	±1.10	
50 - 60	±1.10	±1.20	±1.40	
60 - 80	±1.40	±1.50	±1.70	
80 - 100	±1.70	±1.80	±1.90	
100 - 150	±2.20	±2.20	±2.70	
150 - 200	±2.80	±2.80	±3.30	

Thickness	Deviation allowed as a % of;			Dimensions in millimeters
	Length	Width	Partial deviation % (chord of at least 300mm)	
2.5 - 3.0	0.4%	0.5%	0.5%	
3.0 - 6.0	0.3%	0.4%	0.35%	
6.0 - 50	0.2%	0.4%	0.3%	
50 - 200	0.2%	0.2%	by agreement	

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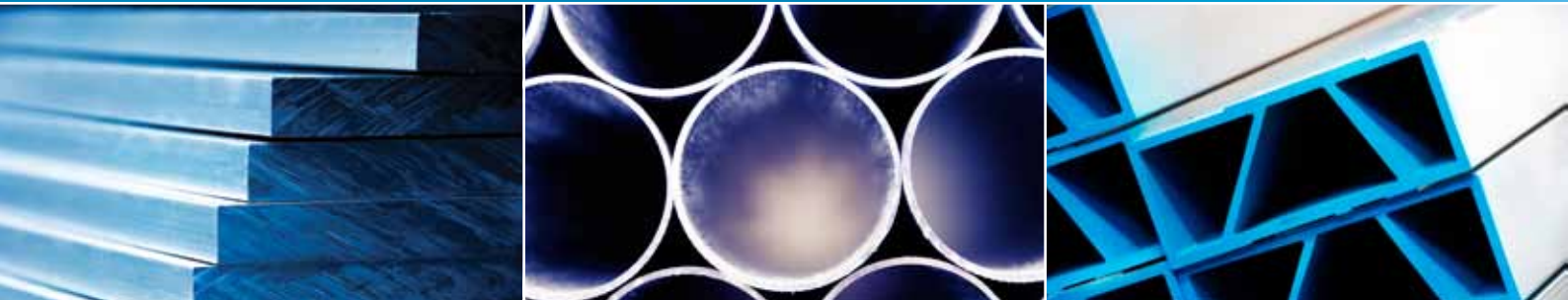
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