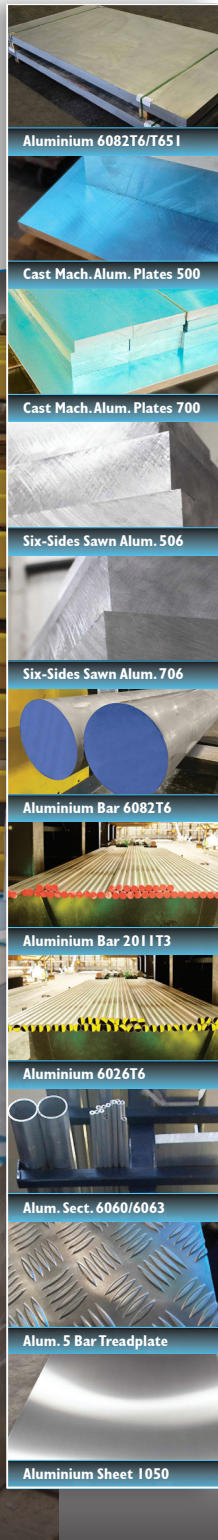


IRELAND'S PREMIER ALUMINIUM SUPPLIER



PRODUCT BROCHURE
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Aluminium 6082T6/T651

Cast Mach. Alum. Plates 500

Cast Mach. Alum. Plates 700

Six-Sides Sawn Alum. 506

Six-Sides Sawn Alum. 706

Aluminium Bar 6082T6

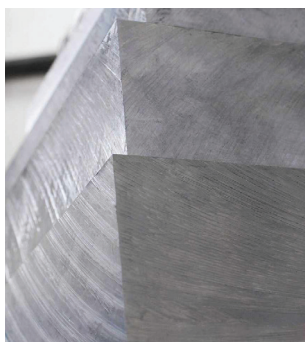
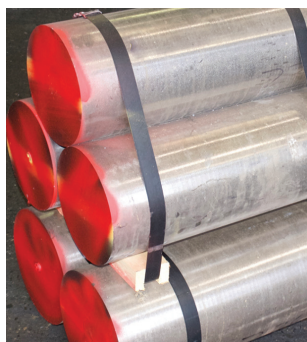
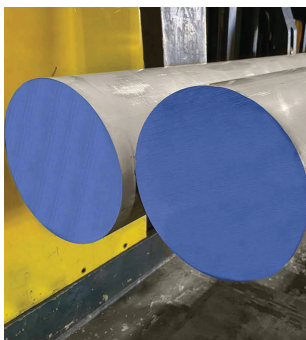
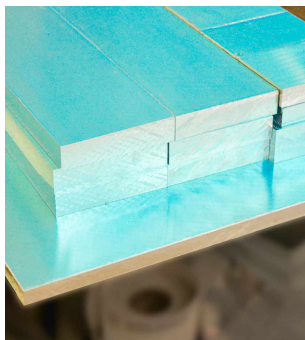
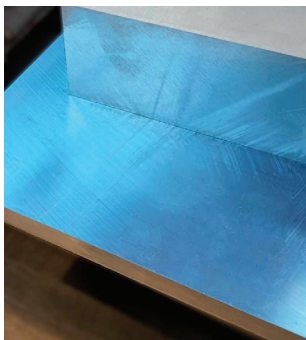
Aluminium Bar 2011T3

Aluminium 6026T6

Alum. Sect. 6060/6063

Alum. 5 Bar Treadplate

Aluminium Sheet 1050

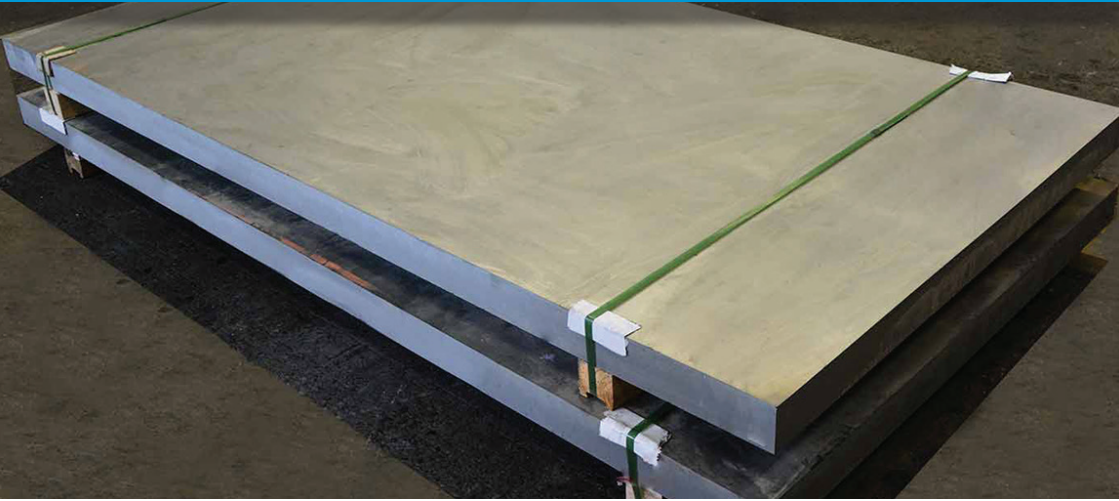




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Aluminium 6082T6/T651 (Commercial Rolled Plate)



Aluminium 6082T6/T651 is a medium strength alloy with excellent corrosion resistance. It has the highest strength of 6000 series alloys. Alloy 6082T6/T651 is known as a structural alloy. In plate form, 6082 is the alloy most commonly used for machining. The addition of a large amount of manganese controls the grain structure which in turn results in a stronger alloy.

Specification

AA	HE	DIN	ISO	EN Number	Material Standard
6082	30	3.2315	Al Si Mg Mn	EN755-5	EN573-3

Chemical Analysis

Mn	Fe	Mg	Si	Cu	Zn	Ti	Cr	Other (Each)	Others (Total)	Al
0.40-1.00	0.0-0.50	0.60-1.20	0.70-1.30	0.0-0.10	0.0-0.20	0.0-0.10	0.0-0.25	0.0-0.05	0.0-0.15	Balance



Sizes

Plate Thickness (mm)

4.00	5.00	6.00	8.00	10.00	12.00	15.00	16.00	20.00	25.00
30.00	35.00	40.00	45.00	50.00	60.00	65.00	70.00	80.00	90.00
100.00	115.00	120.00	125.00	135.00	140.00	150.00	180.00	185.00	190.00
200.00									

Plate Thickness (inch)

3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/8
1 1/4	1 1/2	1 5/8	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4
3 1/2	4	4 1/2	5	5 1/2	6	6 1/2	7	8	9
10	12								

This is our standard size range. If you do not see the shape, size or grade you require, please contact us as we will be happy to assist you with reaching your requirements.



View our extensive range of
Aluminium Bar, Plate,
and Profile, at
www.impactaluminium.ie



IMPACT IRELAND METALS LTD

Aluminium Service Centre



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Registered
Quality
Management
Cert No. 4665



AS 9120
Registered
Aviation Space
and Defence
Cert No. 61782

Cast Machined Aluminium Plates

Impact-500 (EN AW 5083)



Characterised by excellent form stability, very good machinability, extremely low residual stresses and high strengths. The very fine-grained and homogeneous microstructure has almost no microporosity. Our aluminium cast machined plate is an ideal solution for precision parts with high demands. It has good form stability with extremely low residual stresses.

It is two sides precision machined and PVC Centered on both sides. The excellent flatness and thickness tolerance allows the shortest production times in areas such as mechanical engineering, gauge production and the construction of jigs and fixtures in all kinds of capital goods industries. This aluminium cast machined plate has been belt-sanded on both surfaces in the longitudinal direction, to receive a neutral surface, thus eliminating any milling marks.

Product Overview

- Alloy (According to EN 573-3) – AlMg4,5Mn0,7 3.3547 not heat-treatable
- Temper – Homogenised and stress relieved, o3
- Surface – Two surfaces precision-milled 0.4 µm/0.000016 in.

Tolerances

- Thickness in [mm]/[in.] – mm: 0.80/0.197 in.: 0.031 6-12.7 mm: 0.40/0.236-0.500 in.: 0.016

- Flatness [mm/m⁹]/[in.] – > 12.7 mm: 0.13/>0.50 in.: 0.005
- Plate tolerances width/length [mm]/[in.] – -0/+10, -0/+0.394
- Sawing tolerance width/length [mm]/[in.] – -0/+20, -0/+0.787

Specific Notes

- Highest reproducibility
- Very fine-grained structure
- Very good polishability
- Two surfaces precision milled
- Excellent flatness
- Stress relieved
- Elevated strength
- Very homogeneous
- Outstanding corrosion resistance

Fields of Application

Electronics, the laser, packaging and optical industries and the medical and laboratory technology.

- Displays and front frames
- Pressure plates
- Laser modules
- All kinds of base & table plates
- over plates
- Holders of microscopes and telescopes



Product Overview	Precision Machined Cast Aluminium Plates
Product Name	Impact 500 (EN AW 5083)
Alloy	AlMg4,5Mn0,7 3.3547 Not heat-treatable
Temper	Homogenised and stress relieved, o3
Surface	Two surfaces precision milled 0.4 µm/0.000016 in.

Mechanical Properties

Yield Strength Rp0,2 [MPa]/[ksi]	110-130/16-19
Ultimate Tensile Strength Rm [MPa]/[ksi]	230-290/33-42
Elongation A [%]	10-15
Hardness HBW [2.5/62.5]	68-75

Physical Properties

Density [g/cm3]/[lbs/cu.in.]	2.66-0.096
Module of elasticity [GPa]/[ksi 10 ³]	70-10.2
Electrical conductivity [m/mm2]/[% IACS]	16-18/29-32
Coefficient of thermal expansion [K-1 10-6]/[10-6/°F]	23.3/13.1
Thermal Conductivity [W/m K]/[BTU in./ft ² hr°F]	110-130/64-75
Specific heat capacity [J/kg K]/[BTU/lb°F]	900/0.212

Processing Characteristics

Form Stability	1
Machining	2
Welding (Gas/TIG/MIG/resistance/EB)	4/2/2/2/1
Corrosion Resistance (seawater/weather/stress cracking)	1/1/3
Use at temperatures (max. °C long/short therms)/ (max/ °F long/short Therms)	180/280/356/536
Anodising (technical/decorative/hard)	2/4/2
Polishing	2-3
Etching	4-5
Contact with food (according to EN 602)	yes

Tolerances

Thickness in [mm]/[in.]	+/-0.10/+/-0.004 10-15 mm:0.40/0.394-0.591 in.:0.016
Flatness [mm/m ²]/[in.]	>15 mm: 0.25/>0.591 in.:0.010
Plate tolerance width/length [mm]/[in.]	-0/+10 -0/+20/ -0/+0.394 -0/+0/787
Sawing tolerance width/length [mm]/[in.]	-0/+10 -0/+20/ -0/+0.394 -0/+0/787

Cast Machined Aluminium Plates

Impact-700 (EN AW 7021)



Strength & Precision, our cast machined aluminium plates combines both! To use all the advantages of this precision-machined cast aluminium plates in applications requiring higher strength levels, we distribute this material. The high strength values combined with very low residual stresses are unique and reduce the production time significantly. In addition, it has very good corrosion resistance because of the temper of T79. For this reason, in the last few years, it became a better alternative to standard rolled plates as they increase production profitability.

Because of the time saved, you can reduce manufacturing costs by using this material, especially in mechanical engineering and jig making.

Product Overview

- Alloy (According to EN 573-3) – AlMg4,5Mn0,7 3.3547 not heat-treatable
- Temper – Homogenised and stress relieved, o3
- Surface – Two surfaces precision-milled 0.4 µm/0.000016 in.

Tolerances

- Thickness in [mm]/[in.] – mm: 0.80/0.197 in.: 0.031 6-12.7 mm: 0.40/0.236-0.500 in.: 0.016

- Flatness [mm/m²]/[in.] – > 12.7 mm: 0.13/>0.50 in.: 0.005
- Plate tolerances width/length [mm]/[in.] – -0/+10, -0/+0.394
- Sawing tolerance width/length [mm]/[in.] – -0/+20, -0/+0.787

Specific Notes

- Precision machined surface
- High-stress relief
- Very high strength
- Very good homogeneity
- Excellent form stability
- Two surfaces precision-milled and foiled on both sides

Fields of Application

Mechanical engineering, jig making & tooling.

- Highly stressed machine components or requiring a lot of machining
- Base and table plates
- Transfer and indexing plates
- Components requiring high strength values combined with very low residual stresses
- Tool holders



Product Overview	Precision Machined Cast Aluminium Plates
Product Name	Impact 700 (EN AW 7021)
Alloy	AlZn5,5Mg1,5
Temper	Solution heat-treated, quenched, artificially aged, T79
Surface	Two surfaces precision milled 0.4 µm/0.000016 in.

Mechanical Properties

Yield Strength Rp0,2 [MPa]/[ksi]	290-340/42-47
Ultimate Tensile Strength Rm [MPa]/[ksi]	320-380/46-55
Elongation A [%]	2.5-4.5
Hardness HBW [2.5/62.5]	110-120

Physical Properties

Density [g/cm ³]/[lbs/cu.in.]	2.80/0.101
Module of elasticity [GPa]/[ksi 10 ³]	70/10.2
Electrical conductivity [m/mm ²]/[% IACS]	21-24/38-43
Coefficient of thermal expansion [K-1 10-6]/[10-6/°F]	23.0/12.9
Thermal Conductivity [W/m K]/[BTU in./ft ² hr°F]	125-155/72-90
Specific heat capacity [J/kg K]/[BTU/lb°F]	875/0.206

Processing Characteristics

Form Stability	2
Machining	1-2
Welding (Gas/TIG/MIG/resistance/EB)	6/5/2/6/1
Corrosion Resistance (seawater/weather/stress cracking)	4/3/4
Use at temperatures (max. °C long/short therms)/ (max/ °F long/short Therms)	120/140/248/284
Anodising (technical/decorative/hard)	3/6/2
Polishing	1-2
Etching	2-3
Contact with food (according to EN 602)	no

Tolerances

Thickness in [mm]/[in.]	+/-0.10/+/-0.004 10-15 mm:0.40/0.394-0.591 in.:0.016
Flatness [mm/m ²]/[in.]	>15 mm: 0.25/>0.591 in.:0.010
Plate tolerance width/length [mm]/[in.]	-0/+10 -0/+20/ -0/+0.394 -0/+0/787
Sawing tolerance width/length [mm]/[in.]	-0/+10 -0/+20/ -0/+0.394 -0/+0/787

Six-Sides Sawn Aluminium Cast Plates

Impact-506 (EN AW 5083)



Universally applicable – the solution for medium-strength applications! Because of the specific in-house heat treatment, these products get a homogeneous microstructure over the entire ingot cross-section. This is an important distinctive feature of rolled plates. The strength of rolled plates decreases towards the ingot core. These medium-strength, six-sides sawn aluminium plates are characterised by excellent form stability, very good machinability and very good corrosion resistance. Therefore it is an excellent solution for mechanical engineering and mould-making.

Restricted process parameters in the products ensure a very high reproducibility over long production periods. Available in thicknesses up to 1,070 mm / 141.73 in.

Product Overview

- Alloy (According to EN 573-3) – AlMg4,5Mn0,7 3.3547 not heat-treatable
- Temper – Homogenised and Stress relieved, O3
- Surface – Six-Sides sawn $<15 \mu\text{m}/<0.000591$ in.

Tolerances

- Thickness in [mm]/[in.] – Plates ≤ 150 mm: $-0/+2.5$ mm Plates ≤ 5.90 in.: $-0/+0.1$
- Flatness [mm/m²]/[in.] – Plates > 150 mm: $-0/+5$ mm Plates > 5.90 in.: $-0/+0.2$
- Plate tolerances width/length [mm]/[in.] – $-0/+10$, $-0/+0.394$
- Sawing tolerance width/length [mm]/[in.] – $-0/+20$, $-0/+0.787$

Specific Notes

- Extremely stress relieved
- Excellent form stability
- Very good corrosion resistance
- Six-sides sawn

Fields of Application

Mould-making (plastics industry / automotive industry) and mechanical engineering.

- Injection moulds for prototypes
- Deep drawing and casting moulds for the plastics industry
- Foaming and blowing moulds
- Components requiring a lot of machining



Product Overview	Six-Sides Sawn Aluminium Plates
Product Name	Impact 506 (EN AW 5083)
Alloy	AlMg4,5Mn0,73.3547 Not heat-treatable
Temper	Homogenised and stress relieved, O3
Surface	Six-sides sawn <15 µm/<0.000591 in.

Mechanical Properties

Yield Strength Rp0,2 [MPa]/[ksi]	110-130/16-19
Ultimate Tensile Strength Rm [MPa]/[ksi]	230-290/33-42
Elongation A [%]	10-15
Hardness HBW [2.5/62.5]	68-75

Physical Properties

Density [g/cm3]/[lbs/cu.in.]	2.66/0.096
Module of elasticity [GPa]/[ksi 10 ³]	70/10.2
Electrical conductivity [m/mm2]/[% IACS]	16-18/29-32
Coefficient of thermal expansion [K-1 10-6]/[10-6/°F]	23.3/13.1
Thermal Conductivity [W/m K]/[BTU in./ft ² hr°F]	110-130/64-75
Specific heat capacity [J/kg K]/[BTU/lb°F]	900/0.212

Processing Characteristics

Form Stability	1
Machining	2
Welding (Gas/TIG/MIG/resistance/EB)	4/2/2/2/1
Corrosion Resistance (seawater/weather/stress cracking)	1/1/3
Use at temperatures (max. °C long/short therms)/ (max/ °F long/short Therms)	180/280/356/536
Anodising (technical/decorative/hard)	2/4/2
Polishing	2-3
Etching	4-5
Contact with food (according to EN 602)	yes

Tolerances

Thickness in [mm]/[in.]	Plates ≤ 150 mm:-0/+2.5 mm Plates >150 mm:-0/+5 mm
Flatness [mm/m ²]/[in.]	Plates ≤ 5.90 in.: -0/+0.1 Plates > 5.90 in.: -0/+0.2
Plate tolerance width/length [mm]/[in.]	Thickness ≤ 150 mm = DIN ISO 2768-Im/Thickness > 150 mm = -0/+5 mm
Sawing tolerance width/length [mm]/[in.]	Thickness ≤ 5.9 in. = -0/+0.1/Thickness > 5.9 in. = -0/+0.2
Thermal Conductivity [W/m K]/[BTU in./ft ² hr°F]	110-130/64-75
Specific heat capacity [J/kg K]/[BTU/lb°F]	900/0.212

Six-Sides Sawn Aluminium Cast Plates

Impact-706 (EN AW 7021)



If the requirements towards the strength are high and the component must endure heavy loads, this is the ideal solution. The six-sides sawn cast aluminium plate is characterised by very good machinability, very high strength and very low residual stresses. Therefore it is an excellent solution for multiple applications under heavy loads in mechanical engineering and mould-making.

The very good ability for polishing leads to excellent product quality and a very long lifetime of injection and foaming moulds. Even components with excessive machining can be realised easily.

Product Overview

- Alloy (According to EN 573-3) – AlZn5,5Mg1,5
- Temper – Heat-treatable
- Surface – six-sides sawn < 15 µm/<0.000591 in.

Tolerances

- Thickness in [mm]/[in.] – Plates ≤ 150 mm:-
0/+2.5mm Plates ≤ 5.90 in.: -0/+0.1
- Flatness [mm/m²]/[in.] – Plates > 150mm:-
0/+5mm Plates > 5.90 in.: -0/+0.2
- Plate tolerances width/length [mm]/[in.] – -0/+10,
-0/+0.394
- Sawing tolerance width/length [mm]/[in.] –
-0/+20, -0/+0.787

Specific Notes

- Excellent form stability
- Stress relieved
- High strength
- Very good machinability
- Six-sides sawn

Fields of Application

Mould-making in plastics and the automotive industry.

- Injection moulds (for low and medium pressure)
- Deep drawing and casting moulds
- Foaming and blowing moulds (for low pressure)
- Tool-changing equipment
- Bearing blocks and fittings for bigger loads



Product Overview	Six-Sides Sawn Aluminium Plates
Product Name	Impact 706 (EN AW 7021)
Alloy	AlZn5,5Mg1,5 Heat Treatable
Temper	Hardened T79
Surface	Six-sides sawn <15µm/<0.000591 in.

Mechanical Properties

Yield Strength Rp0,2 [MPa]/[ksi]	290-340/42-47
Ultimate Tensile Strength Rm [MPa]/[ksi]	320-380/46-55
Elongation A [%]	2.5-4.5
Hardness HBW [2.5/62.5]	110-120

Physical Properties

Density [g/cm3]/[lbs/cu.in.]	2.80/0.101
Module of elasticity [GPa]/[ksi 10 ³]	70/10.2
Electrical conductivity [m/mm2]/[% IACS]	21-24/38-43
Coefficient of thermal expansion [K-1 10-6]/[10-6/°F]	23.0/12.9
Thermal Conductivity [W/m K]/[BTU in./ft ² hr°F]	125-155/72-90
Specific heat capacity [J/kg K]/[BTU/lb°F]	875/0.206

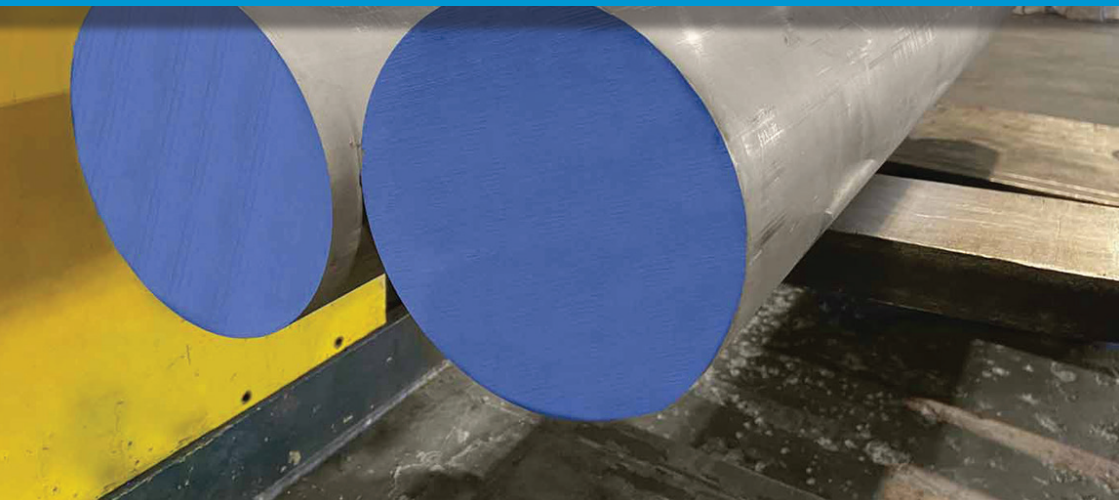
Processing Characteristics

Form Stability	2
Machining	1-2
Welding (Gas/TIG/MIG/resistance/EB)	6/5/2/6/1
Corrosion Resistance (seawater/weather/stress cracking)	4/3/4
Use at temperatures (max. °C long/short therms)/ (max/ °F long/short Therms)	120/140/248/284
Anodising (technical/decorative/hard)	3/6/2
Polishing	1-2
Etching	2-3
Contact with food (according to EN 602)	no

Tolerances

Thickness in [mm]/[in.]	Plates ≤ 150 mm:-0/+2.5 mm Plates >150 mm:-0/+5 mm
Flatness [mm/m9]/[in.]	Plates ≤ 5.90 in.: -0/+0.1 Plates > 5.90 in.: -0/+0.2
Plate tolerance width/length [mm]/[in.]	Thickness ≤ 150 mm = DIN ISO 2768-Im/Thickness > 150 mm = -0/+5 mm
Saving tolerance width/length [mm]/[in.]	Thickness ≤ 5.9 in. = -0/+0.1/Thickness > 5.9 in. = -0/+0.2

Aluminium Bar 6082T6



Aluminium Bar 6082T6 is the most common general engineering alloy. A very popular heat treatable aluminium alloy designed for all-purpose engineering work. Medium strength is matched by good welding, corrosion resistance & machinability. When bending or forming alloy 6082T6, it is recommended to use the O or T4 temper.

6082T6 provides good machinability in the T6 temper. In plate form, 6082T6 is the Alloy most commonly used for machining.

Specification

BS and International Spec	Old BS Designation	DIN No.	W. No.	EN Number	Material Standard
6082	H30	AlMgSi1	3.2315	EN755-5	EN573-3

Chemical Analysis

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
.7-1.3	.5	.1	.421	.6-1.2	0.25	0.2	.1	REM

Colour Code: Blue



Sizes

Rounds (mm)

6.00	8.00	10.00	12.00	16.00	20.00	25.00	30.00	32.00	35.00
40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00
90.00	100.00	110.00	120.00	130.00	140.00	150.00	180.00	200.00	220.00
240.00	260.00	280.00	310.00	340.00	360.00				

Rounds (inch)

1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4
7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2	2 1/4
2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/2	5	5 1/2
6	6 1/2	7	7 1/2	8	8 1/2	9	9 1/2	10	10 1/2
11	11 1/2	12	12 1/2	13	14	15	16	18	20

Flats (mm)

10x3	10x4	10x5	15x3	15x4	15x5	15x6	15x8	15x10	20x3
20x4	20x5	20x6	20x8	20x10	20x12	25x2	25x3	25x4	25x5
25x6	25x8	25x10	25x12	25x15	25x20	30x2	30x3	30x4	30x5
30x6	30x8	30x10	30x12	30x15	30x20	30x25	40x2	40x3	40x4
40x5	40x6	40x10	40x12	40x15	40x20	40x25	40x30	50x2	50x3
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100x50	100x80	120x10	120x12	120x15	120x20	120x25	120x30	120x40	120x50
150x10	150x15	150x20	150x25	150x30	150x40	150x50	200x10	200x12	200x15
200x20	200x25	200x30	200x40	200x50					

Flats (inch)

3/8 x 1/4	1/2 x 1/8	1/2 x 1/4	1/2 x 3/8	5/8 x 1/8	5/8 x 1/4	5/8 x 1/2	3/4 x 1/8	3/4 x 1/4	3/4 x 5/16
3/4 x 3/8	3/4 x 1/2	3/4 x 5/8	1 x 1/8	1 x 1/4	1 x 3/8	1 x 1/2	1 x 5/8	1 x 3/4	1 1/4 x 1/4
1 1/4 x 3/8	1 1/4 x 1/2	1 1/4 x 5/8	1 1/4 x 3/4	1 1/4 x 1	1 1/2 x 1/4	1 1/2 x 3/8	1 1/2 x 1/2	1 1/2 x 5/8	1 1/2 x 3/4
1 1/2 x 1	1 1/2 x 1 1/4	1 3/4 x 1/4	1 3/4 x 3/8	1 3/4 x 1/2	1 3/4 x 5/8	1 3/4 x 3/4	1 3/4 x 1	2 x 1/4	2 x 3/8
2 x 1/2	2 x 5/8	2 x 3/4	2 x 1	2 x 1 1/4	2 x 1 1/2	2 x 1 3/4	2 1/2 x 1/8	2 1/2 x 1/4	2 1/2 x 1/2
2 1/2 x 1/2	2 1/2 x 5/8	2 1/2 x 3/4	2 1/2 x 1/4	2 1/2 x 1 1/2	2 1/2 x 1 3/4	2 1/2 x 2	3 x 1/4	3 x 3/8	3 x 1/2
3 x 5/8	3 x 3/4	3 x 1	3 x 1 1/4	3 x 1 1/2	3 x 1 3/4	3 x 2	3 x 2 1/2	3 1/2 x 3/8	3 1/2 x 5/8
3 1/2 x 3/4	3 1/2 x 1	3 1/2 x 1 1/4	3 1/2 x 1 1/2	3 1/2 x 2	3 1/2 x 2 1/2	4 x 1/4	4 x 3/8	4 x 1/2	4 x 5/8
4 x 3/4	4 x 1	4 x 1 1/4	4 x 1 1/2	4 x 1 3/4	4 x 2	4 x 2 1/2	4 1/2 x 3/8	4 1/2 x 1/2	4 1/2 x 3/4
4 1/2 x 1	4 1/2 x 2	5 x 1/4	5 x 1/2	5 x 5/8	5 x 3/4	5 x 1	5 x 1 1/4	5 x 1 1/2	5 x 2
5 x 3	5 x 4	6 x 1/4	6 x 3/8	6 x 1/2	6 x 5/8	6 x 3/4	6 x 1	6 x 1 1/4	6 x 1 1/2
6 x 1 3/4	6 x 2	6 x 2 1/2	6 x 3	6 x 4	7 x 1	7 x 1 1/2	7 x 2	8 x 1/2	8 x 3/4
8 x 1	8 x 2	10 x 1	10 x 2						

Squares (mm)

6.00	8.00	10.00	12.00	15.00	20.00	25.00	30.00	35.00	40.00
45.00	50.00	60.00	70.00	75.00	80.00	100.00	110.00	120.00	140.00
160.00	180.00								

Squares (inch)

1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4
2	2 1/4	2 1/2	3	3 1/4	3 1/2	4	4 1/2	5	5 1/2
6	6 1/2	7	8	10	12				

Tubes (inch) (OD x WT)

3/8 x 16swg	1/2 x 18swg	1/2 x 16swg	1/2 x 10swg	5/8 x 18swg	5/8 x 16swg	5/8 x 10swg	3/4 x 18swg	3/4 x 16swg	3/4 x 10swg
7/8 x 18swg	7/8 x 16swg	1 x 18swg	1 x 16swg	1 x 10swg	1 x 3/16	1 1/8 x 18swg	1 1/8 x 16swg	1 1/8 x 10swg	1 1/4 x 18swg
1 1/4 x 16swg	1 1/4 x 12swg	1 1/4 x 10swg	1 1/4 x 3/16	1 3/8 x 16swg	1 3/8 x 10swg	1 1/2 x 18swg	1 1/2 x 16swg	1 1/2 x 10swg	1 1/2 x 3/16
1 1/2 x 1/4	1 5/8 x 16swg	1 5/8 x 10swg	1 5/8 x 3/16	1 3/4 x 16swg	1 3/4 x 10swg	1 7/8 x 10swg	2 x 16swg	2 x 10swg	2 x 3/16
2 x 1/4	2 1/4 x 16swg	2 1/4 x 10swg	2 1/2 x 16swg	2 1/2 x 10swg	2 1/2 x 3/16	2 1/2 x 3/8	2 3/4 x 10swg	3 x 16swg	3 x 12swg
3 x 10swg	3 x 3/16	3 x 1/4	3 1/2 x 16swg	3 1/2 x 1/4	4 x 16swg	4 x 12swg	4 x 10swg	4 x 1/4	4 1/2 x 10swg
4 1/2 x 1/4	5 x 10swg	5 x 1/4	5 1/2 x 1/4	6 x 10swg	6 x 1/4	6 1/2 x 1/4	6 1/2 x 1/2	6 1/2 x 3/4	6 1/2 x 1
7 x 1/4	7 x 3/8	7 x 1/2	7 x 3/4	7 x 1	7 1/2 x 1/4	7 1/2 x 1	7 1/2 x 1 1/4	8 x 1/4	8 x 3/8
8 x 1/2	8 x 3/4	8 x 1	8 x 1 1/2	8 1/2 x 1/2	8 1/2 x 3/4	8 1/2 x 1	9 x 3/8	9 x 1/2	9 x 3/4
9 x 1	9 1/2 x 3/4	9 1/2 x 1	10 x 3/16	10 x 1/2	10 x 3/4	10 x 1	10 1/2 x 3/4	10 1/2 x 1	11 x 1/2
11 x 1	12 x 1/2	12 x 3/4	12 x 1	14 x 1	16 x 1				

Equal Angle (inch)

1/2 x 1/2 x 1/16	3/4 x 1/2 x 1/16	3/4 x 1/2 x 1/8	1 x 1/2 x 1/16	1 x 1/2 x 1/8	1 x 3/4 x 1/16	1 x 3/4 x 1/8	1 1/4 x 3/4 x 1/8	1 1/4 x 1 x 1/8	1 1/2 x 1/2 x 1/8
1 1/2 x 3/4 x 1/8	1 1/2 x 1 x 1/8	1 1/2 x 1 x 3/16	1 3/4 x 3/4 x 1/8	1 3/4 x 7/8 x 1/8	2 x 1/2 x 1/8	2 x 3/4 x 1/8	2 x 1 x 1/16	2 x 1 x 1/8	2 x 1 x 3/16
2 x 1 x 1/4	2 x 1 1/4 x 1/4	2 x 1 1/4 x 1/4	2 x 1 1/2 x 1/8	2 x 1 1/2 x 3/16	2 x 1 1/2 x 1/4	2 1/2 x 1 x 1/8	2 1/2 x 1 1/2 x 1/8	2 1/2 x 1 1/2 x 3/16	
2 1/2 x 1 1/2 x 1/4	2 1/2 x 2 x 1/8	2 1/2 x 2 x 3/16	2 1/2 x 2 x 1/4	3 x 1 x 1/8	3 x 1 x 1/4	3 x 3 x 3/8	3 x 1 1/2 x 3/16	3 x 1 1/2 x 1/4	3 x 2 1/8
3 x 2 x 3/16	3 x 2 x 1/4	3 x 2 x 3/8	4 x 1 x 1/8	4 x 2 x 1/8	4 x 2 x 3/16	4 x 2 x 1/4	4 x 3 x 1/8	4 x 3 x 3/16	4 x 3 x 1/4
5 x 2 x 1/4	6 x 2 x 1/4	6 x 3 x 1/4	6 x 3 x 3/8						

Unequal Angle (inch)

$3/4 \times 3/8 \times 1/16$	$3/4 \times 1/2 \times 1/16$	$3/4 \times 1/2 \times 1/8$	$1 \times 1/2 \times 1/16$	$1 \times 1/2 \times 1/8$	$1 \times 3/4 \times 1/16$	$1 \times 3/4 \times 1/8$	$1 \times 1/4 \times 3/4 \times 1/8$	$1 \times 1/4 \times 1 \times 1/8$	$1 \times 1/2 \times 1/2 \times 1/8$
$1 \times 1/2 \times 3/4 \times 1/8$	$1 \times 1/2 \times 1 \times 3/16$	$1 \times 3/4 \times 3/4 \times 1/8$	$1 \times 3/4 \times 7/8 \times 1/8$	$2 \times 1/2 \times 1/8$	$2 \times 3/4 \times 1/8$	$2 \times 1 \times 1/16$	$2 \times 1 \times 1/8$	$2 \times 1 \times 3/16$	$2 \times 1 \times 3/16$
$2 \times 1 \times 1/4$	$2 \times 1 \times 1/4 \times 1/8$	$2 \times 1 \times 1/4 \times 1/4$	$2 \times 1 \times 1/2 \times 1/8$	$2 \times 1 \times 1/2 \times 3/16$	$2 \times 1 \times 1/2 \times 1/4$	$2 \times 1/2 \times 1 \times 1/8$	$2 \times 1/2 \times 1 \times 1/2 \times 1/8$	$2 \times 1/2 \times 1 \times 1/2 \times 3/16$	$2 \times 1/2 \times 1 \times 1/2 \times 1/4$
$2 \times 1/2 \times 2 \times 1/8$	$2 \times 1/2 \times 2 \times 3/16$	$2 \times 1/2 \times 2 \times 1/4$	$3 \times 1 \times 1/8$	$3 \times 1 \times 1/4$	$3 \times 1 \times 1/2 \times 1/8$	$3 \times 1 \times 1/2 \times 3/16$	$3 \times 1 \times 1/2 \times 1/4$	$3 \times 2 \times 1/8$	$3 \times 2 \times 3/16$
$3 \times 2 \times 1/4$	$3 \times 2 \times 3/8$	$4 \times 1 \times 1/8$	$4 \times 2 \times 1/8$	$4 \times 2 \times 3/16$	$4 \times 2 \times 1/4$	$4 \times 3 \times 3/16$	$4 \times 3 \times 1/4$	$5 \times 2 \times 1/4$	$6 \times 2 \times 1/4$
$6 \times 3 \times 1/4$	$6 \times 3 \times 3/8$								

Equal Angle (mm)

$20 \times 20 \times 2$	$20 \times 20 \times 3$	$25 \times 25 \times 2$	$25 \times 25 \times 3$	$30 \times 30 \times 2$	$30 \times 30 \times 3$	$40 \times 40 \times 2$	$40 \times 40 \times 3$	$40 \times 40 \times 4$	$40 \times 40 \times 5$
$50 \times 50 \times 2$	$50 \times 50 \times 3$	$50 \times 50 \times 5$	$50 \times 50 \times 6$	$60 \times 60 \times 6$	$70 \times 70 \times 7$	$80 \times 80 \times 8$	$100 \times 100 \times 10$		

Equal Channel (inch)

$1/2 \times 1/2 \times 1/16$	$1/2 \times 1/2 \times 1/8$	$5/8 \times 5/8 \times 1/16$	$5/8 \times 5/8 \times 1/8$	$3/4 \times 3/4 \times 1/8$	$7/8 \times 7/8 \times 1/8$	$1 \times 1 \times 1/8$	$1 \times 1 \times 3/16$	$1 \times 1/4 \times 1 \times 1/4 \times 1/8$	$1 \times 1/4 \times 1 \times 1/4 \times 3/16$
$1 \times 1/2 \times 1 \times 1/2 \times 1/8$	$1 \times 1/2 \times 1 \times 1/2 \times 3/16$	$2 \times 2 \times 1/8$	$2 \times 2 \times 1/4$						

Unequal Channel (inch)

$1 \times 1/2 \times 1/8$	$1 \times 3/4 \times 1/8$	$1 \times 1 \times 1/2 \times 1/8$	$1 \times 1/4 \times 1/2 \times 1/8$	$1 \times 1 \times 1/4 \times 3/4 \times 1/8$	$1 \times 1/4 \times 1 \times 1/8$	$1 \times 1 \times 1/2 \times 1/2 \times 1/8$	$1 \times 1/2 \times 3/4 \times 1/8$	$1 \times 1/2 \times 1 \times 1/8$	$2 \times 1 \times 1/8$
$2 \times 1 \times 3/16$	$2 \times 1 \times 1/4 \times 5/16$	$2 \times 1 \times 1/2 \times 1/4$	$2 \times 1 \times 1/2 \times 1/4 \times 5/16$	$2 \times 1/4 \times 1 \times 1/4 \times 3/16$	$2 \times 1/2 \times 1 \times 1/8$	$2 \times 1/2 \times 1 \times 1/4 \times 3/16$	$2 \times 1/2 \times 1 \times 1/2 \times 3/16$	$3 \times 1 \times 1/8$	$3 \times 1 \times 1/2 \times 1/8$
$3 \times 1 \times 1/2 \times 3/16$	$3 \times 1 \times 1/2 \times 1/4 \times 5/16$	$3 \times 2 \times 1/8$	$3 \times 2 \times 1/4 \times 5/16$	$3 \times 1/2 \times 1 \times 1/2$	$4 \times 2 \times 1/8$	$4 \times 2 \times 1/4 \times 5/16$	$4 \times 3 \times 3/8$	$5 \times 2 \times 1/4 \times 5/16$	$5 \times 2 \times 1/2 \times 1/4 \times 3/8$
$6 \times 2 \times 1/4 \times 5/16$	$6 \times 3 \times 1/4 \times 3/8$	$6 \times 3 \times 3/8 \times 1/2$	$7 \times 3 \times 3/8 \times 1/8$	$8 \times 3 \times 3/8 \times 1/2$	$8 \times 3 \times 5/16 \times 1/2$				

This is our standard size range. If you do not see the shape, size or grade you require, please contact us as we will be happy to assist you with reaching your requirements.

Aluminium Bar 2011T3



Aluminium Bar 2011T3 is a copper-based aluminium alloy with added lead for improved machinability. This alloy is most often selected for high-speed automatic lathes. It offers the following advantages, easy machining with any equipment, cutting stress lower than most other alloys, longer life of cutting tools, cutting area always clean due to very thin chip.

Main applications include screws, bolts, nuts and threaded bars.

Specification

BS and International Spec	DIN No.	W. No.	EN Number	Material Standard
2011	AlCuBiPb	3.1655	EN754-3	EN573-3

Chemical Analysis

Si	Fe	Cu	Pb	Bi	Zn	Al
0.4	0.7	5-6	0.4	0.6	0.3	REM

Colour Code: Red



Sizes

Rounds (mm)

6.00	8.00	10.00	12.00	16.00	20.00	25.00	30.00	32.00	35.00
40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00		

Rounds (inch)

1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4
7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2	2 1/4
2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/2	5	

Hexagon (mm)

22.00	24.00	30.00							
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Hexagons (inch)

5/16	3/8	1/2	1	1.1	1.125	1.25	1.3	1.375	1.48
1.67									

This is our standard size range. If you do not see the shape, size or grade you require, please contact us as we will be happy to assist you with reaching your requirements.



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Aluminium 6026T6



Aluminium 6026T6 has been updated to allow it to be used in applications that are impacted by new European environmental legislation regarding maximum allowable lead (Pb) content in finished components. This legislation particularly affects automotive and electrical applications and the chemical composition has been changed accordingly. Aluminium 6026T6 finds many applications as a replacement for AW 6262 (which has an allowable lead (Pb) content that makes it incompatible with specific elements of the new European environmental legislation).

6026T6 is especially suited to turned parts manufacture where speed and aesthetic component finish have equal importance. 6026T6 is especially recommended for such components that have anodising or superior corrosion resistance is an additional requirement.

Specification

BS and International Spec	EN Number	Material Standard
6026	EN754-3	EN573-3

Chemical Analysis

Si	Fe	Cu	Pb	Bi	Zn	Mn	Mg	Cr	Ti	Al
0.6-1.4	0.7	0.2-0.5	0.4	0.5-1.5	0.3	0.2-1	0.6-1.2	0.3	0.2	Balance

Colour Code: Black/Yellow



Sizes

Rounds (mm)

6.00	8.00	10.00	12.00	16.00	20.00	25.00	30.00	32.00	35.00
40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00		

Rounds (inch)

1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4
7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	2	2 1/4
2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/2	5	

This is our standard size range. If you do not see the shape, size or grade you require, please contact us as we will be happy to assist you with reaching your requirements.



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Aluminium Sections 6060/6063



Aluminium Sections 6060/6063 is a widely used extrusion alloy, suitable for applications where no special strength properties are required. Parts can be produced with very good surface quality, suitable for many coating operations. Typical application fields are furniture, finishing materials, windows and doors, car body finishing, façade construction, lighting columns and flagpoles, architecture, and food industry.

Tubes (inch) (OD x WT)

38 x 16swg	12 x 18swg	12 x 16swg	12 x 10swg	58 x 18swg	58 x 16swg	58 x 10swg	34 x 18swg	34 x 16swg	34 x 10swg
78 x 18swg	78 x 16swg	1 x 18swg	1 x 16swg	1 x 10swg	1 x 316	1 18 x 18swg	1 18 x 16swg	1 18 x 10swg	1 14 x 18swg
1 14 x 16swg	1 14 x 12swg	1 14 x 10swg	1 14 x 316	1 38 x 16swg	1 38 x 10swg	1 12 x 18swg	1 12 x 16swg	1 12 x 10swg	1 12 x 316
1 12 x 14	1 58 x 16swg	1 58 x 10swg	1 58 x 316	1 34 x 16swg	1 34 x 10swg	1 78 x 10swg	2 x 16swg	2 x 10swg	2 x 316
2 x 14	2 14 x 16swg	2 14 x 10swg	2 12 x 16swg	2 12 x 10swg	2 12 x 316	2 12 x 38	2 34 x 10swg	3 x 16swg	3 x 12swg
3 x 10swg	3 x 316	3 x 14	3 12 x 16swg	3 12 x 14	4 x 16swg	4 x 12swg	4 x 10swg	4 x 14	4 12 x 10swg
4 12 x 14	5 x 10swg	5 x 14	5 12 x 14	6 x 10swg	6 x 14	6 12 x 14	6 12 x 12	6 12 x 34	6 12 x 1
7 x 14	7 x 38	7 x 12	7 x 34	7 x 1	7 12 x 14	7 12 x 1	7 12 x 1 14	8 x 14	8 x 38
8 x 12	8 x 34	8 x 1	8 x 1 12	8 12 x 12	8 12 x 34	8 12 x 1	9 x 38	9 x 12	9 x 34
9 x 1	9 12 x 34	9 12 x 1	10 x 316	10 x 12	10 x 34	10 x 1	10 12 x 34	10 12 x 1	11 x 12
11 x 1	12 x 12	12 x 34	12 x 1	14 x 1	16 x 1				

Colour Code: Blue



Equal Angle (inch)

Unequal Angle (inch)

Equal Angle (mm)

Equal Channel (inch)

Unequal Channel (inch)

23

Alum 5 Bar (Quintet) Treadplate

Alloy 5754H111



Treadplate is generally used in flooring applications. It provides antislip safety, perfect water drainage and doesn't require any surface treatment or maintenance. Treadplate is the ideal choice for commercial vehicles, gantries, horseboxes, trailers, walkways etc.

Specification

BS & Intl Spec	Old BS Designation	Din No.	Wt. No.
5754	-	AlMg3	3.535

Chemical Analysis

Al	Si	Fe	Mn	Mg
Balance	0.4 max	0.4 max	0.5 max	2.6-3.2

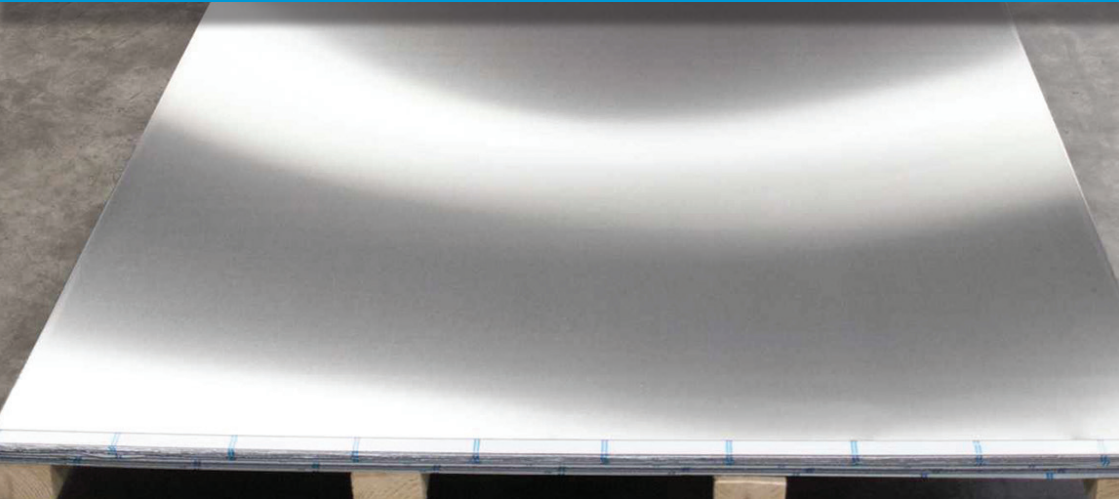
Sizes: Sheets (mm)

2500 x 1250 x 2	3000 x 1500 x 2	2500 x 1250 x 3	3000 x 1500 x 3	2500 x 1250 x 4.5	3000 x 1500 x 4.5	2500 x 1250 x 6	3000 x 1500 x 6
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This is our standard size range. If you do not see the shape, size or grade you require, please contact us as we will be happy to assist you with reaching your requirements.



Aluminium Sheet 1050



Aluminium 1050 is an unalloyed non-heat treatable rolled aluminium sheet engineered for general sheet metal work where high mechanical properties are not required. Grade 1050 is suitable for welding.

Specification

BS and International Spec	Old BS Designation	DIN No.	W.No.	Material Standard
1050A	1B	Al99.5	3.0255	EN573-3

Chemical Analysis

	Al	Si	Fe	Cu	Mn	Mg	Zn	Ti
Min	99.5							
Max		0.25	0.40	0.05	0.05	0.05	0.07	0.05

Sizes: Sheets (mm)

0.5	0.7	0.9	1	1.2	1.5	2	2.5	3	4
5	6								

This is our standard size range. If you do not see the shape, size or grade you require, please contact us as we will be happy to assist you with reaching your requirements.



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