

3 x 3 x 1/8

3 x 3 x 3/16

3 x 3 x 1/4

3 x 3 x 3/8

1.21

1.91

2.51 3.69

Aluminium - 6082 T6

Equal Angle	Properties
Equal 7 (11910	1 Toperties

Stock Weightm (Kg) Element	Equal Angle		Properties		
3/8 x 3/8 x 1/16 0.08 Manganese (Min) 0.40 - 1.00 1/2 x 1/2 x 1/18 0.10 1/2 x 1/2 x 1/18 0.19 Magneslum (Mg) 0.60 - 1.20 5/8 x 5/8 x 1/16 0.13 Silicon (S) 0.70 - 1.30 5/8 x 5/8 x 1/16 0.25 Copper (Cu) 0.0 - 0.10 3/4 x 3/4 x 1/16 0.30 Titanium (Ti) 0.0 - 0.10 7/8 x 7/8 x 1/8 0.36 Chromium (Cr) 0.0 - 0.10 7/8 x 7/8 x 1/8 0.38 Aluminium (Al) Balance 1 x 1 x 1/16 0.21 Mechanical Properties 1 x 1 x 1/3 1 x 1 x 1/4 0.76 Proof Stress 170 MPa 1 x 1 x 1/4 x 1/16 0.27 Elongation 1 1/4 x 1 1/4 x 1/16 0.76 1 1/4 x 1 1/4 x 1/16 0.76 Hardness Vickers 7 5 HV Themal Expansion 2 x 1 x 10 x 1/8 Mething Point 1 3/4 x 1 3/4 x 1/8 0.63 Property Value Physical Properties 1 1/2 x 1 1/2 x 1/4 1 0.98 Physical Properties Property Value Physical Properties 1 1/2 x 1 1/2 x 1/4 1 1/2 x 1 1/2 x 1/4 1 1/4 x 1 1/4 x 1/4 1 1/4 x 1 1/4 x 1/4 1 1/4 x 1 1/2 x 1/4 1 1/4 x 1 1/4 x 1/4 1 1/4	Stock		Chemical Properties		
1/2 x 1/2 x 1/16 0.10 Iron (Fe) 0.0 - 0.50 1/2 x 1/2 x 1/8 019 Magnesium (Mg) 0.60 - 1.20 5/8 x 5/8 x 1/16 0.13 Silicon (S) 0.70 - 1.30 5/8 x 5/8 x 1/18 0.25 Copper (Cu) 0.0 - 0.10 3/4 x 3/4 x 1/16 0.16 Zinc (Zn) 0.0 - 0.20 3/4 x 3/4 x 1/18 0.30 Titanium (Ti) 0.0 - 0.10 7/8 x 7/8 x 1/8 0.36 Chromium (Cr) 0.0 - 0.25 2 x 2 x 3 mm 0.38 Aluminium (AI) Balance 1 x 1 x 1/16 0.21 Mechanical Properties 1 x 1 x 1/16 0.41 Mechanical Properties 1 x 1 x 1/16 0.59 Property Value 1 x 1 x 1/14 0.76 Proof Stress 170 MPa 1 x 1 x 1/14 0.76 Proof Stress 170 MPa 1 1/4 x 1 1/4 x 1/16 0.52 Elongation 19% 1 1/4 x 1 1/4 x 1/16 0.52 Shear Strength 170 MPa 1 1/2 x 1 1/2 x 1/16 x 1/2 x 1/16 0.32 Property Value	Size (in)	Weight/m (Kg)	Element	Chemical composition %	
1/2 x 1/2 x 1/8 019 Magnesium (Mg) 0.60 - 1.20 5/8 x 5/8 x 1/16 0.13 Silicon (Si) 0.70 - 1.30 5/8 x 5/8 x 1/18 0.25 Copper (Cu) 0.0 - 0.10 3/4 x 3/4 x 1/18 0.16 Zinc (Zn) 0.0 - 0.20 3/4 x 3/4 x 1/18 0.30 Titanium (Ti) 0.0 - 0.10 7/8 x 7/8 x 1/8 0.36 Chromium (Cr) 0.0 - 0.25 25 x 25 x 3mm 0.38 Aluminium (AI) Balance 1 x 1 x 1/16 0.21 Mechanical Properties 1 x 1 x 1/18 0.41 Mechanical Properties 1 x 1 x 1/14 0.76 Property Value 1 x 1 x 1/4 0.76 Prof Stress 170 MPa 1 x 1 x 1/4 0.76 Prof Stress 170 MPa 1 1/4 x 1 1/4 x 1/16 0.27 Elongation 19% 1 1/4 x 1 1/4 x 1/16 0.27 Elongation 19% 1 1/4 x 1 1/2 x 1/16 0.22 Shear Strength 170 MPa 1 1/2 x 1 1/2 x 1/16 0.32 Property Value	3/8 x 3/8 x 1/16	0.08	Manganese (Mn)	0.40 - 1.00	
5/8 x 5/8 x 1/16 0.13 Silcon (Si) 0.70 - 1.30 5/8 x 5/8 x 1/8 0.25 Copper (Cu) 0.0 - 0.10 3/4 x 3/4 x 1/16 0.16 Zinc (Zn) 0.0 - 0.20 3/4 x 3/4 x 1/8 0.30 Titanium (Ti) 0.0 - 0.10 7/8 x 7/8 x 1/8 0.36 Chromium (Cr) 0.0 - 0.25 5 x 25 x 3mm 0.38 Aluminium (Al) Balance 1 x 1 x 1/8 0.41 Mechanical Properties 1 x 1 x 1/8 0.41 Mechanical Properties 1 x 1 x 1/4 0.76 Property Value 1 x 1 x 1/4 0.76 Proof Stress 170 MPa 1 1/4 x 1/4 x 1/4 0.76 Hardness Vickers 75 HV 1 1/4 x 1 1/4 x 1/4 0.98 Physical Properties 1 1/2 x 1 1/2 x 1/6 0.63 Property Value 1 1/2 x 1 1/2 x 1/6 0.63 Property Value 1 1/2 x 1 1/2 x 1/6 0.63 Property Value 1 1/2 x 1 1/2 x 1/6 0.63 Property Value 1 1/2 x 1 1/2 x 1	1/2 x 1/2 x 1/16	0.10	Iron (Fe)	0.0 - 0.50	
5/8 x 5/8 x 1/8 0.25 Copper (Cu) 0.0 - 0.10 3/4 x 3/4 x 1/16 0.16 Zinc (Zn) 0.0 - 0.20 3/4 x 3/4 x 1/8 0.30 Titanium (Ti) 0.0 - 0.10 7/8 x 7/8 x 1/8 0.36 Chromium (Cr) 0.0 - 0.25 25 x 25 x 3mm 0.38 Aluminium (Al) Balance 1 x 1 x 1/16 0.21 <td a="" constru<="" construction="" of="" rows="" td="" the=""><td>1/2 x 1/2 x 1/8</td><td>019</td><td>Magnesium (Mg)</td><td>0.60 - 1.20</td></td>	<td>1/2 x 1/2 x 1/8</td> <td>019</td> <td>Magnesium (Mg)</td> <td>0.60 - 1.20</td>	1/2 x 1/2 x 1/8	019	Magnesium (Mg)	0.60 - 1.20
3/4 x 3/4 x 1/16	5/8 x 5/8 x 1/16	0.13	Silicon (Si)	0.70 - 1.30	
3/4 x 3/4 x 1/8 0.30 Titanium (Ti) 0.0 - 0.10 7/8 x 7/8 x 1/8 0.36 Chromium (Cr) 0.0 - 0.25 25 x 25 x 3mm 0.38 Aluminium (Al) Balance 1 x 1 x 1/16 0.21	5/8 x 5/8 x 1/8	0.25	Copper (Cu)	0.0 - 0.10	
7/8 x 7/8 x 1/8 0.36 Chromium (Cr) 0.0 - 0.25 25 x 25 x 3mm 0.38 Aluminium (Al) Balance 1 x 1 x 1/16 0.21 Mechanical Properties 1 x 1 x 1/8 0.41 Mechanical Properties 1 x 1 x 3/16 0.59 Property Value 1 x 1 x 1/4 0.76 Proof Stress 170 MPa 1 x 1 x 1/4 0.76 Elongation 19% 1 1/4 x 1 1/4 x 1/16 0.52 Shear Strength 170 MPa 1 1/4 x 1 1/4 x 1/4 0.52 Shear Strength 170 MPa 1 1/4 x 1 1/4 x 1/4 0.98 Physical Properties 1 1/2 x 1 1/2 x 1/16 0.32 Physical Properties Property Value 1 1/2 x 1 1/2 x 1/16 0.32 Property Value 1 1/2 x 1 1/2 x 1/16 0.92 Density 2.70 g/cm³ 1 1/2 x 1 1/2 x 1/4 1.20 Melting Point 555°C 1 3/4 x 1 3/4 x 1/8 0.74 Thermal Expansion 24 x 10-6 /K 40 x 40 x 3mm	3/4 x 3/4 x 1/16	0.16	Zinc (Zn)	0.0 - 0.20	
25 x 25 x 3mm	3/4 x 3/4 x 1/8	0.30	Titanium (Ti)	0.0 - 0.10	
1 x 1 x 1/16 0.21 1 x 1 x 1/18 0.41 Mechanical Properties 1 x 1 x 3/16 0.59 Property Value 1 x 1 x 1/4 0.76 Proof Stress 170 MPa 30 x 30 x 3mm 0.47 Tensile Strength 260 MPa 1 1/4 x 1 1/4 x 1/16 0.27 Elongation 19% 1 1/4 x 1 1/4 x 1/8 0.52 Shear Strength 170 MPa 1 1/4 x 1 1/4 x 3/16 0.76 Hardness Vickers 75 HV 1 1/2 x 1 1/2 x 1/16 0.98 Physical Properties 1 1/2 x 1 1/12 x 1/16 0.32 Property Value 1 1/2 x 1 1/2 x 3/16 0.63 Posity 2.70 g/cm³ 1 1/2 x 1 1/2 x 1/4 1.20 Melting Point 555°C 1 1/2 x 1 1/2 x 1/4 1.20 Modulus of Elasticity 70 GPa 1 3/4 x 1 3/4 x 3/16 1.09 Modulus of Elasticity 70 GPa 1 3/4 x 1 3/4 x 1/4 1.42 Thermal Conductivity 180 W/m.K 4 0 x 40 x 4mm 0.82 Fox 50 x 3mm 0.79 50 x 50 x 3mm 0.79 Modulus of Elasticity 0.038 x 10-6 Ω.m	7/8 x 7/8 x 1/8	0.36	Chromium (Cr)	0.0 - 0.25	
1 x 1 x 1/8 0.41 Mechanical Properties 1 x 1 x 3/16 0.59 Property Value 1 x 1 x 1/4 0.76 Proof Stress 170 MPa 30 x 30 x 3mm 0.47 Tensile Strength 260 MPa 1 1/4 x 1 1/4 x 1/16 0.27 Elongation 19% 1 1/4 x 1 1/4 x 1/18 0.52 Shear Strength 170 MPa 1 1/4 x 1 1/4 x 9/16 0.76 Hardness Vickers 75 HV 1 1/4 x 1 1/4 x 1/4 0.98 Physical Properties 1 1/2 x 1 1/2 x 1/16 0.32 Property Value 1 1/2 x 1 1/2 x 1/4 0.63 Property Value 1 1/2 x 1 1/2 x 3/16 0.92 Melting Point 555°C 1 1/2 x 1 1/2 x 1/4 1.20 Thermal Expansion 24 x 10-6 /K 1 3/4 x 1 3/4 x 1/4 1.42 Modulus of Elasticity 70 GPa 1 3/4 x 1 3/4 x 1/4 1.42 Thermal Conductivity 180 W/m. K 40 x 40 x 4mm 0.82 Fox 50 x 8mm 0.79 50 x 50 x 8mm 1.30 2x 2 x 1/16	25 x 25 x 3mm	0.38	Aluminium (AI)	Balance	
1 x 1 x 3/16 0.59 Property Value 1 x 1 x 1/4 0.76 Proof Stress 170 MPa 30 x 30 x 3mm 0.47 Tensile Strength 260 MPa 1 1/4 x 1 1/4 x 1/16 0.27 Elongation 19% 1 1/4 x 1 1/4 x 1/8 0.52 Shear Strength 170 MPa 1 1/4 x 1 1/4 x 3/16 0.76 Hardness Vickers 75 HV 1 1/4 x 1 1/4 x 1/4 0.98 1 1/2 x 1 1/2 x 1/16 0.32 Physical Properties 1 1/2 x 1 1/2 x 1/16 0.92 Density 2.70 g/cm³ 1 1/2 x 1 1/2 x 1/4 1.20 Themal Expansion 24 x 10-6 /K 1 3/4 x 1 3/4 x 1/4 1.42 Themal Expansion 24 x 10-6 /K 1 3/4 x 1 3/4 x 1/4 1.42 Themal Conductivity 180 W/m.K 1 3/4 x 1 3/4 x 1/4 1.42 Electrical Resistivity 0.038 x 10-6 Ω.m 1 0 x 40 x 4mm 0.82 So x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2x 2 x 1/16 0.43 2 x 2 x 1/16 0.43 2x 2 x 3/16 1.25 2 x 2 x 3/16 1.25 Themal Expansion 24 x 1/4	1 x 1 x 1/16	0.21			
1 x 1 x 1/4	1 x 1 x 1/8	0.41	Mechanical Properties		
30 x 30 x 3mm	1 x 1 x 3/16	0.59	Property	Value	
1 1/4 x 1 1/4 x 1/16	1 x 1 x 1/4	0.76	Proof Stress	170 MPa	
1 1/4 x 1 1/4 x 1/8 1 1/4 x 1 1/4 x 3/16 1 1/4 x 1 1/4 x 3/16 1 1/4 x 1 1/4 x 3/16 1 1/4 x 1 1/4 x 1/4 1 0.98 1 1/2 x 1 1/2 x 1/16 1 0.32 1 1/2 x 1 1/2 x 1/16 1 0.92 1 1/2 x 1 1/2 x 3/16 1 1/2 x 1 1/2 x 1/4 1 1.20 1 1/4 x 1 3/4 x 1/8 1 1/4 x 1 3/4 x 1/8 1 1/4 x 1 3/4 x 1/8 1 1/4 x 1 3/4 x 1/4 1 1.20 1 1/4 x 1 3/4 x 1/8 1 1/4 x 1 3/4 x 1/8 1 1/4 x 1 3/4 x 1/8 1 1/4 x 1 3/4 x 3/16 1 1/5 1 1/6 x 1 1/6 1 1/6 x 1/6 1 1/6	30 x 30 x 3mm	0.47	Tensile Strength	260 MPa	
1 1/4 x 1 1/4 x 3/16 0.76 Hardness Vickers 75 HV 1 1/4 x 1 1/4 x 1/4 0.98 Physical Properties 1 1/2 x 1 1/2 x 1/16 0.32 Property Value 1 1/2 x 1 1/2 x 1/8 0.63 Density 2.70 g/cm³ 1 1/2 x 1 1/2 x 3/16 0.92 Melting Point 555°C 1 1/2 x 1 1/2 x 1/4 1.20 Thermal Expansion 24 x 10-6 /K 1 3/4 x 1 3/4 x 3/16 1.09 Modulus of Elasticity 70 GPa 1 3/4 x 1 3/4 x 1/4 1.42 Thermal Conductivity 180 W/m.K 40 x 40 x 3mm 0.63 Electrical Resistivity 0.038 x 10-6 Ω.m 50 x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2.2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.25	1 1/4 x 1 1/4 x 1/16	0.27	Elongation	19%	
1 1/4 x 1 1/4 x 1/4	1 1/4 x 1 1/4 x 1/8	0.52	Shear Strength	170 MPa	
1 1/2 x 1 1/2 x 1/16	1 1/4 x 1 1/4 x 3/16	0.76	Hardness Vickers	75 HV	
1 1/2 x 1 1/2 x 1/8 0.63 Property Value 1 1/2 x 1 1/2 x 3/16 0.92 Density 2.70 g/cm³ 1 1/2 x 1 1/2 x 3/16 0.92 Melting Point 555°C 1 3/4 x 1 3/4 x 1/8 0.74 Thermal Expansion 24 x 10-6 /K 1 3/4 x 1 3/4 x 3/16 1.09 Modulus of Elasticity 70 GPa 1 3/4 x 1 3/4 x 1/4 1.42 Thermal Conductivity 180 W/m.K 40 x 40 x 3mm 0.63 Electrical Resistivity 0.038 x 10-6 Ω.m 50 x 50 x 3mm 0.79 0.43 2 x 2 x 1/16 0.43 0.85 2 x 2 x 3/16 1.25	1 1/4 x 1 1/4 x 1/4	0.98			
1 1/2 x 1 1/2 x 3/16 0.63 Density 2.70 g/cm³ 1 1/2 x 1 1/2 x 3/16 0.92 Melting Point 555°C 1 3/4 x 1 3/4 x 1/8 0.74 Thermal Expansion 24 x 10-6 /K 1 3/4 x 1 3/4 x 3/16 1.09 Modulus of Elasticity 70 GPa 1 3/4 x 1 3/4 x 1/4 1.42 Thermal Conductivity 180 W/m.K 40 x 40 x 3mm 0.63 Electrical Resistivity 0.038 x 10-6 Ω.m 50 x 50 x 3mm 0.79 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 1/18 0.85 0.85 2 x 2 x 3/16 1.25	1 1/2 x 1 1/2 x 1/16	0.32	Physical Properties		
1 1/2 x 1 1/2 x 3/16 0.92 1 1 1/2 x 1 1/2 x 1/4 1.20 1 3/4 x 1 3/4 x 1/8 0.74 1 3/4 x 1 3/4 x 3/16 1.09 1 3/4 x 1 3/4 x 1/4 1.42 40 x 40 x 3mm 0.63 40 x 40 x 4mm 0.82 50 x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 3/16 1.25 Melting Point 555°C Thermal Expansion 24 x 10-6 /K Thermal Expansion 25 x 2 x 10-6 /K Thermal Expansion 26 x 2 x 10-6 /K Thermal Expansion 27 x 2 x 10-6 /K Thermal Expansion 28 x 10-6 /K Thermal Expansion 29 x 10-6 /K Thermal Expansion 20 x 10-6 /K Thermal Expansion 20 x 2 x 10-6 /K Thermal Expansion 21 x 2 x 10-6 /K Thermal Expansion 22 x 2 x 10-6 /K Thermal Expansion 24 x 10-6 /K Thermal Expansion 24 x 10-6 /K Thermal Expansion 20 x 10-6 /K Thermal Expansion 20 x 10-6 /K Thermal Expansion 21 x 10-6 /K Thermal Expansion 21 x 10-6 /K Thermal Expansion 22 x 2 x 10-6 /K Thermal Expansion 24 x 10-6 /K Thermal Expansion 25 x 10-6 /K Thermal Expansion 26 x 10-6 /K Thermal Expansion 27 x 10-6 /K	1 1/2 x 1 1/2 x 1/8	0.63	Property		
1 3/4 x 1 3/4 x 3/16 1 1.42 40 x 40 x 3mm 0.63 40 x 40 x 4mm 0.82 50 x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.25 Thermal Expansion 24 x 10-6 /K Modulus of Elasticity 70 GPa Thermal Conductivity 180 W/m.K Electrical Resistivity 0.038 x 10-6 Ω.m	1 1/2 x 1 1/2 x 3/16	0.92		2.70 g/cm ³	
1 3/4 x 1 3/4 x 3/16 1 3/4 x 1 3/4 x 3/16 1 1.09 1 3/4 x 1 3/4 x 1/4 40 x 40 x 3mm 0.63 40 x 40 x 4mm 0.82 50 x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.09 Modulus of Elasticity 70 GPa Thermal Conductivity 180 W/m.K Electrical Resistivity 0.038 x 10-6 Ω.m	1 1 /2 x 1 1/2 x 1/4	1.20	Melting Point		
1 3/4 x 1 3/4 x 1/4 1 1.42 40 x 40 x 3mm 0.63 40 x 40 x 4mm 0.82 50 x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 3/16 1.25 Thermal Conductivity 180 W/m.K Electrical Resistivity 0.038 x 10-6 Ω.m	1 3/4 x 1 3/4 x 1/8	0.74			
1 3/4 x 1 3/4 x 1/4 40 x 40 x 3mm 0.63 40 x 40 x 4mm 0.82 50 x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.25	1 3/4 x 1 3/4 x 3/16	1.09			
40 x 40 x 4mm 0.82 50 x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.25	1 3/4 x 1 3/4 x 1/4	1.42			
50 x 50 x 3mm 0.79 50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.25	40 x 40 x 3mm	0.63	Electrical Resistivity	0.038 x 10-6 Ω.m	
50 x 50 x 6mm 1.30 2 x 2 x 1/16 0.43 2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.25	40 x 40 x 4mm	0.82			
2 x 2 x 1/16 0.43 2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.25	50 x 50 x 3mm	0.79			
2 x 2 x 1/8 0.85 2 x 2 x 3/16 1.25	50 x 50 x 6mm	1.30			
2 x 2 x 3/16 1.25	2 x 2 x 1/16	0.43			
	2 x 2 x 1/8	0.85			
	2 x 2 x 3/16	1.25			
2 x 2 x 1/4 1.64	2 x 2 x 1/4	1.64			
2 x 2 x 3/8 2.38	2 x 2 x 3/8	2.38			
2 1/2 x 2 1/2 x 1/8 1.06	2 1/2 x 2 1/2 x 1/8	1.06			
2 1/2 x 2 1/2 x 3/16 1.58	2 1/2 x 2 1/2 x 3/16	1.58			
2 1/2 x 2 1/2 x 1/4 2.08	2 1/2 x 2 1/2 x 1/4	2.08			
75 x 75 x 3mm 1.28	75 x 75 x 3mm	1.28			

100 x 100 x 10mm	3.79
4 x 4 x 1/4	3.39
4 x 4 x 3/8	5.00
6 x 6 x 1/2	10.00

Disclaimer

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