

# Aluminium - 6082 T6

## Square Marine Tees

## Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (Kg)	Element	Chemical composition %
40 x 40 x 4	0.83	Manganese (Mn)	0.40 - 1.00
40 x 40 x 5	1.01	Iron (Fe)	0.0 - 0.50
50 x 50 x 4	1.05	Magnesium (Mg)	0.60 - 1.20
50 x 50 x 5	1.23	Silicon (Si)	0.70 - 1.30
50 x 50 x 6	1.65	Copper (Cu)	0.0 - 0.10
50 x 100 x 6	2.36	Zinc (Zn)	0.0 - 0.20
50 x 130 x 4 / 10	2.70	Titanium (Ti)	0.0 - 0.10
50.8 x 76.2 x 6.35	2.10	Chromium (Cr)	0.0 - 0.25
60 x 60 x 6	1.85	Aluminium (Al)	Balance
70 x 70 x 7	2.51		
75 x 75 x 6	2.43		
76.2 x 101.6 x 6.35	4.60		
80 x 80 x 7	2.95		
80 x 80 x 8	3.32		
80 x 120 x 8	4.22		
80 x 165 x 5 / 8	3.89		
80 x 180 x 8	5.50		
80 x 180 x 10	6.83		
100 x 100 x 6	3.20		
100 x 100 x 12	6.16		
100 x 125 x 10 / 15	7.10		
100 x 210 x 6 / 10	6.16		
101.6 x 76.2 x 9.52	4.60		
101.6 x 101.6 x 7.93	6.00		
120 x 120 x 8	7.25		
228 x 228 x 15.87	18.96		

  

Mechanical Properties	
Property	Value
Proof Stress	170 MPa
Tensile Strength	260 MPa
Elongation	19%
Shear Strength	170 MPa
Hardness Vickers	75 HV

  

Physical Properties	
Property	Value
Density	2.70 g/cm <sup>3</sup>
Melting Point	555°C
Thermal Expansion	24 x 10 <sup>-6</sup> /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	180 W/m.K
Electrical Resistivity	0.038 x 10 <sup>-6</sup> Ω.m

Bespoke sections can be supplied to specific customer requirements.

## Disclaimer

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