

SPECIFICATIONS

Commercial	6082T6
EN	6082T6

Aalco stock range of DNV Certified Marine Extrusions in Aluminium Alloy 6082T6.

Range includes Flat Bar, Tube, Tee, Angle, Channel, I-Beam, Bulb Bar and Rider Bar.

CHEMICAL COMPOSITION

Element	% Present
Magnesium (Mg)	0.5 - 1.2
Manganese (Mn)	0.4 - 1
Iron (Fe)	0.5 max
Chromium (Cr)	0.25 max
Titanium (Ti)	0.2 max
Zinc (Zn)	0.2 max
Copper (Cu)	0.1 max
Nickel (Ni)	0.1 max
Lead (Pb)	0.05 max
Tin (Sn)	0.05 max

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.7 g/cm ³
Melting Point	555 °C
Thermal Expansion	24 x10 ⁻⁶ /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	180 W/m.K
Electrical Resistivity	0.038 x10 ⁻⁶ Ω .m

STOCK SIZES

Flat Bar: 40mmx5mm / 40mmx6mm / 50mmx6mm / 80mmx6mm / 80mmx8mm / 100mmx8mm
 Rider Bar: 50mm / 80mm
 Bulb Bar: 50mm / 76mm
 Bulb Flat: 98.7mmx19mm
 Channel: 200x80x8x12
 Equal Angle: 50mmx50mmx6mm
 Equal Tee: 38.1x4.76 / 40x4 / 50x4 / 50.8x6.3
 I-Beam: 203x76x7x10
 Tube (O/D x Wall): 38.1mmx4.76mm / 114.3mmx6.3mm / 50.8mmx4mm / 1inx10g / 1.25inx10g / 6.5inx0.25in / 3inx0.25in

ALLOY DESIGNATIONS

6082

TEMPER TYPES

- T6 - Solution heat treated and artificially aged

SUPPLIED FORMS

- Angle
- Bar
- Extrusions
- Rod
- Tube

CONTACT

Address: Please make contact directly with your local service centre, which can be found via the Locations page of our web site
Web: www.aalco.co.uk

REVISION HISTORY

Datasheet Updated 06 March 2017

DISCLAIMER

This Data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

Please note that the 'Datasheet Update' date shown above is no guarantee of accuracy or whether the datasheet is up to date.

The information provided in this datasheet has been drawn from various recognised sources, including EN Standards, recognised industry references (printed & online) and manufacturers' data. No guarantee is given that the information is from the latest issue of those sources or about the accuracy of those sources.

Material supplied by the Company may vary significantly from this data, but will conform to all relevant and applicable standards.

As the products detailed may be used for a wide variety of purposes and as the Company has no control over their use; the Company specifically excludes all conditions or warranties expressed or implied by statute or otherwise as to dimensions, properties and/or fitness for any particular purpose, whether expressed or implied.

Advice given by the Company to any third party is given for that party's assistance only and without liability on the part of the Company. All transactions are subject to the Company's current Conditions of Sale. The extent of the Company's liabilities to any customer is clearly set out in those Conditions; a copy of which is available on request.



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DNV Certified Extrusion *IN STOCK* at Aalco

Aalco are holding stock of these DNV certified extrusions, available from stock to your site.

Section	Alloy	Length
40mm x 5mm Flat	6082T6	5850mm
40mm x 6mm Flat	6082T6	5850mm
50mm x 6mm Flat	6082T6	5850mm
80mm x 6mm Flat	6082T6	5850mm
50mm x 50mm x 6mm Angle	6082T6	5850mm
38.1mm x 38.1mm x 4.76mm Tee	6082T6	5850mm
40mm x 40mm x 4mm Tee	6082T6	5850mm
50mm x 50mm x 4mm Tee	6082T6	5850mm
50.8mm x 50.8mm x 6.3mm Tee	6082T6	5850mm
38.1mm O/D x 4.76mm Tube	6082T6	5850mm
114.3mm O/D x 6.3mm Tube	6082T6	5850mm
50.8mm O/D x 4mm Tube	6082T6	5850mm
50mm Bulb Bar	6082T6	5850mm
76mm Bulb Bar	6082T6	5850mm
50mm Rider Bar	6082T5	5850mm
80mm Rider Bar	6082T5	5850mm
1" O/D x 10g Tube	6082T6	5850mm
1 1/4" O/D x 10g Tube	6082T6	5850mm
200mm x 80mm x 8mm x 12mm Channel	6082T6	7000mm
203mm x 76mm x 7mm x 10mm I Beam	6082T6	7000mm
6 1/2" O/D x 1/4" Tube	6082T6	5000mm
3" O/D x 1/4" Tube	6082T6	5000mm

We have dies for the following:

80mm x 8mm Flat

100mm x 8mm Flat

98.7mm x 19mm Bulb Flat



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