

ALUMINIUM SHEET

TYPICAL APPLICATIONS

Aerospace Components, Eg: Shelves, Trays, Filters.
 Defence Components
 High Technology Applications

PRODUCT DESCRIPTION

A medium strength rolled sheet, solution heat-treated and artificially aged to achieve 'T6' condition. Also available in 'O'(annealed) and 'T4'(solution heat-treated only) conditions, to accommodate various degrees of forming, drawing or spinning operations.

General Engineering Equivalent - 6082T6
 General Engineering Euronorm - EN 485/515/573
 Old BS - HS30TF (BS1470)
 AECMA Euronorm - None

STOCK RANGE

0.0236" to 0.118" (0.6mm To 3mm) Thick in 'O', 'T4' and 'T6' Conditions.

CUT TO SIZE GUILLOTINED BLANKS

Edge deviation over cut length/width +/- 0.2mm per m (maximum thickness 6.35mm)

FORMABILITY

Good.

CORROSION RESISTANCE

Resistance to Atmospheric Attack
 Good

SURFACE TREATMENT

Anodising

Protective - Good
 Bright - Fair
 Hard - Good / Very Good
 Colour - Good

Plating

Special pre-treatment necessary to achieve successful results

Vitreous Enamelling

As Plating.

WELDABILITY

Brazing & Soldering - Good
 Oxygen - Fair
 Inert Gas - Very Good
 Resistance, Spot, Beam - Very Good

PRODUCTION TOLERANCES

Manufacturing limits are as stated in the Section 9 of BS 4L100 – Tables 15 (F2, 4, 5, 6 & 7). For further assistance please contact our Sales Dept / Laboratory.

CHEMICAL COMPOSITION (WEIGHT %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Pb	Sn
Min	REM	0.7			0.4	0.5						
Max	REM	1.3	0.5	0.1	1.0	1.2	0.25	0.1	0.2	0.2	0.05	0.05

MECHANICAL PROPERTIES (MINIMA)

Size Range (mm)		Tensile Strength (MPa)	0.2% Proof Stress (MPa)	Elongation on $5.65 \sqrt{S_0}$ (%)	Elongation on 50mm (%)
Over	Up to & Including				
0.2	3.0	295	255	-	8
3.0	6.0	295	240	-	8

NB: Figures shown above are for 'T6' condition.

TECHNICAL SALES ASSISTANCE

Our resident team of qualified metallurgists and engineers will be pleased to assist further on any technical topic.

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