

ALUMINIUM ALCLAD SHEET

TYPICAL APPLICATIONS

Aerospace Components
 Defence Components
 High Technology Applications

PRODUCT DESCRIPTION

A high strength 5.1 to 6.1% Zinc alloy solution heat treated and artificially aged to achieve the T6 condition. Also generally available in the 'O' condition for more severe, bending and forming operations.

AECMA Euronorm - BS EN 2092 (T6)

STOCK RANGE

0.008" to 0.249" Thick
 (0.203 to 6.32mm)

CUT TO SIZE GUILLOTINED BLANKS

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

FORMABILITY

Fair for 'O' condition.

CORROSION RESISTANCE

Resistance to Atmospheric Attack

Very Good

SURFACE TREATMENT

Anodising

Protective - Excellent
 Bright - Very Good
 Hard - Excellent
 Colour - Very Good

Plating

Special pre-treatment necessary to achieve successful results

Vitreous Enamelling

As Plating.

WELDABILITY

Please contact our Technical Department.

PRODUCTION TOLERANCES

Manufacturing limits are as stated in Table 7.7b to 7.18 in U.S. Aluminium Standards and Data. For further assistance please contact our Sales Dept / Laboratory.

CHEMICAL COMPOSITION (WEIGHT %)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others
Min	REM			1.2		2.10	0.18	5.10		0.05 Each (Max)
Max	REM	0.40	0.50	2.0	0.30	2.90	0.28	6.10	0.20	0.15 Total

MECHANICAL PROPERTIES (MINIMA)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 5.65 √ S ₀ (%)	Elongation on 50mm (%)
0.008 – 0.011	68	58	5	-
0.012 – 0.039	71	61	8	-
0.040 – 0.062	72	62	9	-
0.063 – 0.125	74	64	9	-
0.126 – 0.187	74	64	9	-
0.188 – 0.249	76	65	9	-

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.

Thames Stockholders

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