

ALUMINIUM ALCLAD SHEET

TYPICAL APPLICATIONS

Aerospace Components
Defence Components
High Technology Applications

PRODUCT DESCRIPTION

A high strength 3.8 to 4.9% Copper alloy rolled sheet, alclad to 1.5% nominal material thickness, solution heat-treated, cold worked and naturally aged to achieve a substantially 'T3' condition, made to the American Standard. Also generally available in 'O' annealed condition for more severe bending, forming or spinning operations; further details available on request.
AECMA Euronorm - BS EN 2090 (T3)

STOCK RANGE

Sheet : 0.008" to 0.249" Thick
(0.2 to 6.32mm)

CUT TO SIZE GUILLOTINED BLANKS

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

FORMABILITY

Good

CORROSION RESISTANCE

Resistance to Atmospheric Attack

Very Good

SURFACE TREATMENT

Anodising

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

Plating

Very Good

Vitreous Enamelling

Good

WELDABILITY

Please contact our Technical Department.

PRODUCTION TOLERANCES

Manufacturing limits are as stated in the Tables 7.7b to 7.18 of U.S. Aluminium Standards & 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			3.80	0.30	1.20				0.05 Each (Max)
Max	REM	0.50	0.50	4.90	0.90	1.80	0.10	0.25	0.15	0.15 Total

MECHANICAL PROPERTIES (MINIMA FOR 'T3' CONDITION)

Size Range (in)	Tensile Strength (ksi)	0.2% Proof Stress (ksi)	Elongation on 5.65 $\sqrt{S_0}$ (%)	Elongation on 50mm (%)
0.008 - 0.009	58	39	-	10
0.010 - 0.020	59	39	-	12
0.021 - 0.062	59	39	-	15
0.063 - 0.128	61	40	-	15
0.129 - 0.249	62	40	-	15

TECHNICAL SALES ASSISTANCE

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

Smiths High Performance

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