

ALUMINIUM ALCLAD SHEET

TYPICAL APPLICATIONS

Aerospace Components
Defence Components
High Technology Applications

PRODUCT DESCRIPTION

A high strength 3.9 to 5% Copper alloy rolled sheet, clad with 1050A, solution heat treated, cold worked and naturally aged to a substantially stable condition, to achieve T3 condition.

General Engineering Old BS - HC15TB (BS 1470)
AECMA Euronorm - None

STOCK RANGE

0.0118" to 0.236" Thick
(0.3 to 6mm)

CUT TO SIZE GUILLOTINED BLANKS

Edge deviation over cut length/width $\pm 0.2\text{mm}$ 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 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 + Zr	Ti	Others
Min	Rem	0.50		3.9	0.40	0.20						0.05 Each (Max)
Max	Rem	0.90	0.50	5.0	1.20	0.80	0.10	0.10	0.25	0.20	0.15	0.15 (Total)

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				
0.4	0.8	385	245	-	13
0.8	1.6	385	245	-	14
1.6	6.0	390	250	-	14

TECHNICAL SALES ASSISTANCE

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

Advanced Metals International

Unit O, Stratton Business Park, London Road, Biggleswade, Bedfordshire SG18 8QB United Kingdom

Tel: +44 (0) 1767 604 710 Fax: +44 (0) 01767 315 340 Email: sales@advancedmetals.com Website: www.advancedmetals.com

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