

## 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.

### Thames Stockholders

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