AMS QQA 250/13 7075

DATA SHEET

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 $5.65\sqrt{S_0}$ (%)	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.

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