

L95 Aluminium T651

Technical Datasheet



Service. Quality. Value.

Aluminium Plate

Typical Applications

- High stressed components for commercial & military aircraft
- Rolling stock for machine parts and tools (for rubber and plastics)
- Fixings including screws, nuts, bolts & rivets
- Nuclear applications

Product Description

L95 aluminium alloy is a very high strength plate product which is supplied to the aerospace sector in both commercial and military markets. Normally supplied as T651 temper, the alloy also benefits from a very high fatigue strength. The material may be clad with 7072 which will provide better protection against stress corrosion cracking (SCC).

Availability

Plate

Key features:

- Very high strength alloy
- Very high fatigue strength
- Corrosion protection recommended
- Most common temper for L95 is T651

Related material specifications:

Aluminium alloy L95 - 7075 is covered by standard BS 2L95 (1971). BS2L95 (1971) was superseded by BS EN 2126 on 15 October 1996.

Corrosion Resistance

Corrosion protection recommended for outdoor atmosphere.

Machinability

Fair

Chemical Composition (weight %)

	Zn	Mg	Cu	Fe	Si	Cr	Mn	Ti+Zr	Ni	Sn	Pb	Al	Other
Min.	5.10	2.10	1.20			0.10						Bal	
Max.	6.40	2.90	2.00	0.50	0.40	0.25	0.30	0.20	0.05	0.05	0.05	Bal	0.15

Mechanical Properties

Thickness (mm)	Proof Strength (min)	Tensile Strength (min)	Elongation % (min)
Over 6 to & incl. 12.5	450	530	8
Over 12.5 up to & incl. 25	450	530	6
Over 25 up to & incl. 40	450	530	5
Over 40 up to & incl. 63	440	510	5
Over 63 up to & incl. 90	410	500	5

Properties based on T651 temper and given in the long transverse direction only.

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

www.smithmetal.com

sales@smithmetal.com

Biggleswade 01767 604604	Birmingham 0121 7284940	Bristol 0117 9712800	Chelmsford 01245 466664	Gateshead 0191 4695428	Horsham 01403 261981	Leeds 0113 3075167
London 020 72412430	Manchester 0161 7948650	Nottingham 0115 9254801	Norwich 01603 789878	Redruth 01209 315512	Verwood 01202 824347	General 0845 5273331



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