

# 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 BS2L95 (1971) was superseded by BS EN 2126 on 15 October 1996.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.

#### UK Service Centres:

Smiths Belfast **02895 908 897**  
Smiths Biggleswade **01767 604 704**  
Smiths Birmingham **0121 728 4940**  
Smiths Bristol **0117 971 2800**  
Smiths Chelmsford **01245 466 664**  
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Smiths Redruth **01209 315 512**  
Smiths Verwood **01202 824 347**  
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#### Quality & Testing:



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