

## Aluminium Alloy 3L54 Tube

### SPECIFICATIONS

Commercial	1200
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Applications:  
Drawn Tube

#### Characteristic Properties:

Very good atmospheric corrosion resistance and workability. High thermal conductivity and reflectivity but lower than for 1050A. Very good weldability. Slightly higher strength than 1050A.

### CHEMICAL COMPOSITION

BS 4L54(1986)  
Alloy 3L54

Element	% Present
Aluminium (Al)	99 min
Silicon + Iron (Si+Fe)	1 max
Others (Total)	0.15 max
Zinc (Zn)	0.1 max
Manganese (Mn)	0.05 max
Titanium (Ti)	0.05 max
Copper (Cu)	0.05 max
Other (Each)	0.05 max

The tube shall be supplied cold drawn.

### ALLOY DESIGNATIONS

Aluminium alloy 3L54 - 1200 is covered by Standard BS EN 4L54 (1986)

### TEMPER TYPES

The most common tempers for 3L54 - 1200 aluminium is cold drawn

### SUPPLIED FORMS

3L54-1200 aluminium is supplied as cold drawn tube

- Tube

### GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.59 g/cm <sup>3</sup>
Melting Point	657 °C
Thermal Expansion	23.4 x10 <sup>-6</sup> /K
Modulus of Elasticity	69 GPa
Thermal Conductivity	225 W/m.K
Electrical Resistivity	58.5 % IACS

### MECHANICAL PROPERTIES

BS 4L54(1986)  
Seamless Tube  
Up to and inc. 75mm OD

Property	Value
Tensile Strength	125 Min MPa

The tensile value shown relates to tubes with a nominal outside diameter up to and including 75mm. The value for over 75mm shall be 110 N/mm<sup>2</sup>.

Tubes shall be subjected to a single drifting test, a bore test and a hydraulic test according to the formula shown in the specification.

## CONTACT

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## REVISION HISTORY

Datasheet Updated	07 January 2014
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