



L21 Cement Board

L grades are high performance cement board products used to provide excellent electrical resistance for metal production.

**Product
Description**

L21 grade is used in industry to provide excellent electrical resistance. It is used worldwide in metal production (such as aluminium smelting) and switchgear applications within power stations and transportation systems. L grades have been approved by network rail. Typical applications include: Superstructure insulation, Bus Bar Insulation and Arc Chutes. Additionally, Tenmat's manufacturing facilities enable unique components to be cut to many custom designs, as specified by our customers.

**Product
Advantages**

- High Strength
- High Machinability
- Excellent Thermal Resistance
- Excellent Electrical Resistance
- High Quality Products
- High Toughness
- Dimensionally Stable
- Non Combustible
- Chemically Inert
- Mechanical Strength at Temperature

Technical Data

Property	Unit	Value
Density	g / cm3	1.73
Compressive strength	MPa @ ambient	85
Compressive yield	% @ 68.9 MPa	2.6
Shear strength	MPa @ ambient	21
Flexural strength	MPa @ ambient	28
Impact strength	KJ/m2 @ ambient	5
Water absorption	% 24 hrs @ ambient	13
Electric strength	KV/mm @ 90°C	50
Surface Breakdown	KV/mm @ 90°C	14
Thermal conductivity	W/mK	0.5
Maximum continuous operating temperature	°C	230
Maximum intermittent operating temperature	°C	250

Approved Applications

- Metal production (such as aluminium smelting)
- Switchgear applications within power stations
- Transportation systems

Sizes

Standard sheet sizes are 1245 x 940 mm, with thickness between 6 and 75 mm. Alternatively, machined components are available on request to customer drawings.

Storage

- To be stored in a dry location
- Take care not to exceed safe working loads and heights for storage shelves and racks



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ARCLEX

FEROFORM

FIREFLY

NITRASIL

REFEL

**REFRACTORY
PRODUCTS**

REFRAVER

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Advanced materials.
tenmat.com

Tenmat warrants the materials it produces will conform to Tenmat specifications and approved drawings where applicable. It is entirely the customer's responsibility to make the final product choice and satisfy themselves of the suitability of the product for the intended application, carrying out testing where required. For construction projects, all products which the customer is intending to use on a particular project must be approved in writing by the customer's building designer, system designer or design control professional, to ensure compliance with the latest regulations.

The information contained in Tenmat data sheets is presented in good faith. The values are "typical only" and are based on test results generally in accordance with BS2782, ASTM, a variety of other main test bodies along with Tenmat internal test methods. These values should not be relied upon for specification purposes or the primary selection of materials. As the data sheet values are typical only, Tenmat does not warrant the conformity of its materials to these properties or the suitability of its materials for any particular purpose. It is the responsibility of the customer to do the necessary testing and satisfy themselves the product is suitable for the intended application.