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# L21 Cement Board

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

High Temperature Performance Materials

## 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

Tenmat Ltd
Ashburton Rd West, Manchester
M17 1TD United Kingdom

+44 161 872 2181
info@tenmat.com

tenmat.com

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