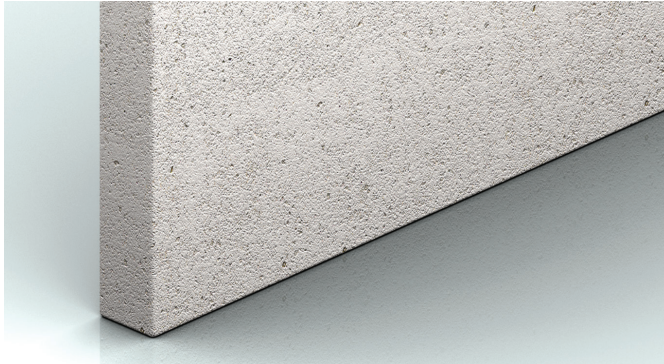


## SUPALUX®

### Fire protective construction board



### Product description

SUPALUX® is a non-combustible calcium silicate board manufactured under Promat's proprietary Mineral Matrix Engineering Technology. It does not contain formaldehyde or any asbestos. The product is dimensionally stable and resistant to the effects of moisture. Its performance characteristics are not degraded by moisture SUPALUX® has the following intended uses (according to EAD<sup>(1)</sup> 350142-00-1106): internal use (type Z2), internal use in high humidity conditions (type Z1) and external semi-exposed use (type Y). For fully exposed conditions, consult Promat Technical Department.

EAD<sup>(1)</sup>: European Assessment Document

### Manufacturing Certification

SUPALUX® is manufactured under a quality management system certified in accordance with ISO 9001:2015. The manufacturing site is also certified to meet the environmental standards of ISO 14001:2015 and the occupational health & safety requirements of ISO 45001:2018.

### Fire Resistant Applications

- Structural steel fire protection
- Internal drywalls
- Internal lining to external walls
- Suspended and self-supporting hanger free ceilings
- Self-supporting airduct or cladding to steel sheet metal ducts
- Enclosures to E&M services
- Smoke screens
- Flame barrier
- Parapet & spandrel walls
- Upgrading fire performance of
  - Reinforced concrete
  - Masonry construction

#### Material properties

<b>General description</b>	Calcium Silicate board made with Mineral Matrix Engineering technology
<b>Surface condition &amp; appearance</b>	Off-white colour Front face: smooth Back face: sanded
<b>Nominal dry density (average)</b>	Approx. 975kg/m <sup>3</sup>
<b>Moisture Content</b>	Approx. 6.0% The moisture content varies and will reach an equilibrium over time with the atmospheric relative humidity of the environment
<b>Alkalinity</b>	pH 12
<b>Thickness tolerance</b>	Compliant with thickness tolerance of CE requirements (9mm thick standard sheets, +/-0.5mm)
<b>Dimension tolerance</b>	±5mm (standard board dimensions)

#### Static Values

Modulus of Elasticity E	Flexural Strength F	Tensile strength T	Compressive strength $\perp$
Longitudinal: 4.1kN/mm <sup>2</sup> Transverse: 4.0kN/mm <sup>2</sup>	Longitudinal: 10N/mm <sup>2</sup> Transverse: 7N/mm <sup>2</sup>	Longitudinal: 4.11N/mm <sup>2</sup> Transverse: 2.15N/mm <sup>2</sup>	9.3N/mm <sup>2</sup>

#### Reaction to Fire & Thermal Properties

Combustibility	Surface burning	Thermal conductivity
A1 Classification: EN 13501-1 Non-combustible: BS 476: Part 4	Class O: BS 476: Part 6 & 7	0.242W/m <sup>2</sup> K

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Standard thickness	Standard dimension	Number of boards per pallet	Surface area per pallet	Weight of standard sheet	Weight per pallet
9mm	2440mm x 1220mm	61	181.5m <sup>2</sup>	Approx. 29kg	Approx. 1,888kg
12mm	2440mm x 1220mm	46	136.9m <sup>2</sup>	Approx. 39kg	Approx. 1,896kg
15mm	2440mm x 1220mm	36	107.3m <sup>2</sup>	Approx. 49kg	Approx. 1,858kg
20mm	2440mm x 1220mm	27	80.4m <sup>2</sup>	Approx. 65kg	Approx. 1,859kg
25mm	2440mm x 1220mm	22	65.4m <sup>2</sup>	Approx. 82kg	Approx. 1,890kg

All physical and mechanical values are averages based on standard production and tested according to internal procedures. The typical values are given for guidance. The figures can change dependent on the test methods used. If a particular value is of prime importance for a specification, please consult Promat Technical Department.

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