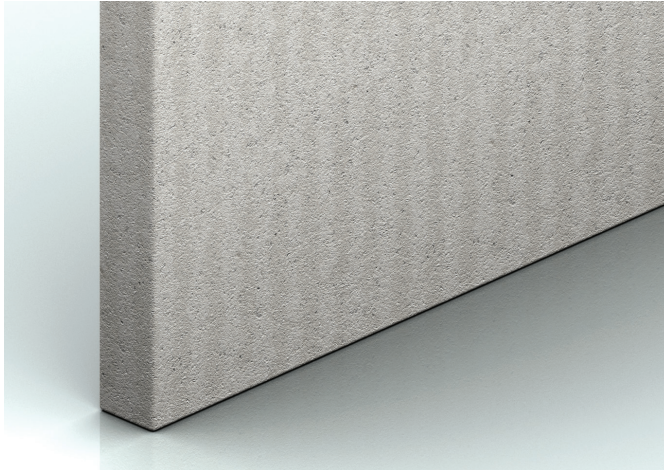


PROMATECT-N®

Matrix engineered mineral board



Product description

PROMATECT®-N is a non combustible matrix engineered mineral board reinforced with selected fibres and fillers. It does not contain asbestos and formaldehyde.

PROMATECT®-N is light grey in colour. The front face is smooth and is suitable for any forms of architectural/finishing treatment; the reverse face is sanded. The board can be left undecorated or easily finished with paints, wallpapers or tiles.

PROMATECT®-N is resistant to effects of moisture and will not physically deteriorate in a damp or humid environment. Whilst its performance characteristics are not degraded by moisture or ages, PROMATECT®-N is not designed for application in areas subject to continual damp or high temperatures.

PROMATECT®-N product does not rot and it will not support the growth of mould or attract pests.

Benefits

- Non-combustible
- Stable board characteristic at high temperature
- Resistant to effects of moisture and humidity
- Tested and proven on its fire performance in various test standards and system applications
- Up to 4 hours fire rating for selected system application
- Slim construction by using this board to achieve the desired fire rating

Fire Resistant Applications

- Ductwork
- M&E Services Enclosures

Material properties

General description	Calcium Silicate Board Engineered with Mineral Matrix Structure (Promaxon® technology)
Surface condition & appearance	Light grey colour Front face: smooth Back face: sanded
Nominal dry density (average)	Nominal 1000kg/m ³
Moisture Content	Approx 8.0% (may change depending on ambient Relative Humidity)
Alkalinity	pH 12
Thickness tolerance	-0.5mm, +1mm (standard thickness of boards)
Dimension tolerance	±5mm (standard board dimensions)

Static Values (deflection $f \leq l/250$, safety factor $n \geq 3$)

Modulus of Elasticity E	Flexural Strength F	Tensile strength T	Compressive strength \perp
Longitudinal: 4599N/mm ² Transverse: 3817N/mm ²	Longitudinal: 7.52N/mm ² Transverse: 5.15N/mm ²	Longitudinal: 5.99N/mm ² Transverse: 5.17N/mm ²	7.76 N/mm ²

Reaction to Fire & Thermal Properties

Combustibility	Surface burning	Thermal conductivity
A1 Classification: EN 13501-1 Non-combustible: BS 476: Part 4 AS 1530: Part 3	Class 1: BS 476: Part 7 Class 0: AS 1530: Part 3	0.136W/m ² K

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Standard thickness	Standard dimension	Weight of boards per m ²
9mm	2440mm x 1220mm	Approx. 9kg
12mm	2440mm x 1220mm	Approx. 12kg
15mm	2440mm x 1220mm	Approx. 15kg
20mm	2440mm x 1220mm	Approx. 20kg
25mm	2440mm x 1220mm	Approx. 25kg

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.

Manufacturing Certification

PROMATECT®-N 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.

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