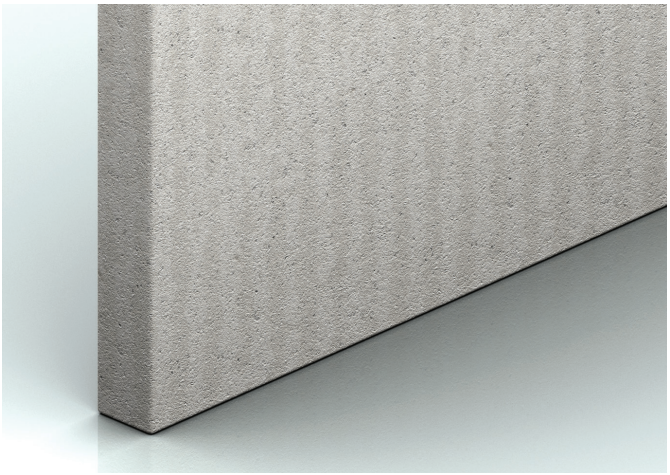
Promat

Product data sheet

# 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<br>Front face: smooth<br>Back face: sanded |
| **Nominal dry density (average)** | Nominal 1000kg/m³ |
| **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 ≤ l/250, safety factor n ≥ 3) | | | |
|---|---|---|---|
| **Modulus of Elasticity** E | **Flexural Strength** F | **Tensile strength** T | **Compressive strength** ⊥ |
| Longitudinal: 4599/mm²<br>Transverse: 3817N/mm² | Longitudinal: 7.52N/mm²<br>Transverse: 5.15N/mm² | Longitudinal: 5.99N/mm²<br>Transverse: 5.17N/mm² | 7.76 N/mm² |

| Reaction to Fire & Thermal Properties | | |
|---|---|---|
| **Combustibility** | **Surface burning** | **Thermal conductivity** |
| A1 Classification: EN 13501-1<br>Non-combustible: BS 476: Part 4<br>AS 1530: Part 1 | Class 1: BS 476: Part 7<br>Class 0: AS 1530: Part 3 | 0.136W/m°K |

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| Standard thickness | Standard dimension | Weight of boards per m² |
|---|---|---|
| 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.

**Australia**
**Promat Australia Pty Ltd**

**South Australia office**
1 Scotland Road
SA 5031 Mile End South
1800 Promat (776 628)
+61 8 8352 1014
PAPL.mail@etexgroup.com

**New South Wales office**
Unit 1, 175 Briens Road
Northmead, NSW 2152
1800 Promat (776 628)
+61 2 9630 0258
PAPL.mail@etexgroup.com

**Victoria office**
Unit 1, 355 Grieve Parade
Altona North, VIC 3025
1800 Promat (776 628)
1800 334 598
PAPL.mail@etexgroup.com

**Queensland office**
80 Stradbroke St
Heathwood QLD 4110
1800 011 376
1800 334 598
PAPL.mail@etexgroup.com

**China**
**Promat Shanghai Ltd**
No.2, Tai Hua Street
Yonghe Economic District
Guangzhou City
Guangdong Province 511356
+86 20 8136 1167
promat.cn@etexgroup.com

**Hong Kong**
**Promat International (Asia Pacific) Ltd**
Room 1010, C.C. Wu Building
302-308 Hennessy Road
Wanchai
+852 2836 3692
promat.hk@etexgroup.com

**Malaysia**
**Etex Malaysia Sdn Bhd**
Unit 19-02-01, Level 2, Wisma Tune
19 Lorong Dungun, Damansara Heights
50490 Kuala Lumpur
+60 3 2095 8555
promat.my@etexgroup.com

**Singapore**
**Promat Building System Pte Ltd**
10 Science Park Road, #03-02 The Alpha
Singapore Science Park II
117684 Singapore
+65 6776 7635
promat.sg@etexgroup.com

- The technical data provided in this publication is based on mean values prevalent at time of publication and is thus subject to fluctuation. It should not be regarded as a guarantee to system performance.
- All data contained herein conforms to and frequently surpasses generally accepted fire protection standards recognised by most professional fire science practitioners and regulatory authorities worldwide. The same general principle is equally applicable to all Promat products and systems. Promat has access to a considerable body of test authentication data and this can be provided on a complimentary basis upon request. It should be noted however that this publication replaces all previous editions in its entirety.
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