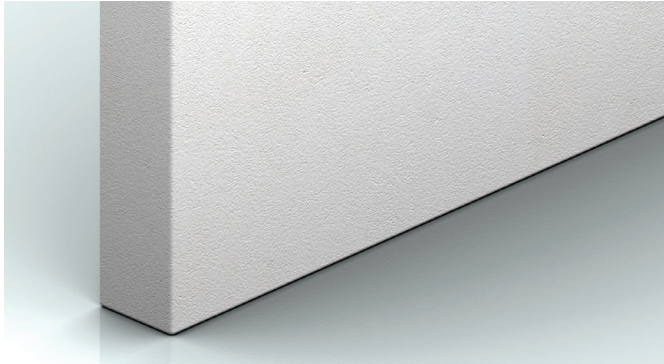


PROMATECT®-100

Calcium silicate board



Product description

PROMATECT®-100 comprises autoclaved calcium silicate spheres (PROMAXON® is a synthetic hydrated calcium silicate in spherical form) bound in a mineral matrix. PromaX® technology provides excellent fire performance in most applications.

PROMATECT®-100 is off-white in colour. One face is smooth and ready to form a finished surface, able to receive almost any form of architectural/finish treatment. The reverse face is sanded.

PROMATECT®-100 is resistant to the effects of moisture and will not physically deteriorate when used in damp or humid conditions. Performance characteristics are not degraded by age or moisture. However, PROMATECT®-100 is not designed for use in areas subject to continual damp or high temperatures. PROMATECT®-100 is for internal applications only.

Fire Resistant Applications

- Structural Steel Protection
- Partition & External Walls
- Ceilings & Floors
- Access Panels & Hatches

Material properties

General description	PROMAXON® mineral board
Surface condition & appearance	Off white colour Front face: smooth Back face: sanded
Nominal dry density (average)	850kg/m ³
Moisture Content	Approx. 12.72% The moisture content varies and will reach an equilibrium over time with the atmospheric relative humidity of the environment
Alkalinity	Approx. pH 9
Thickness tolerance	±0.5mm (standard thickness board)
Dimension tolerance	±0-3mm (standard board dimensions)

Static Values

Flexural Strength F	Tensile strength T	Compressive strength \perp
Longitudinal: 4.5N/mm ²	Longitudinal: 1.02N/mm ² Transverse: 0.98N/mm ²	5.99N/mm ²

Reaction to Fire & Thermal Properties

Combustibility	Thermal conductivity
A1 Classification: EN 13501-1	0.164W/m ² K

PROMATECT[®]-100

Calcium silicate board

Standard thickness	Standard dimension	Number of boards per pallet	Surface area per pallet	Weight of standard sheet	Weight per pallet
8mm	2500mm x 1200mm	50	150m ²	Approx. 22.8 kg	Approx. 1140kg
10mm	2500mm x 1200mm	40	120m ²	Approx. 27.8 kg	Approx. 1110kg
12mm	2500mm x 1200mm	30	90m ²	Approx. 34.0 kg	Approx. 1020kg
15mm	2500mm x 1200mm	25	75m ²	Approx. 40.4 kg	Approx. 1010kg
18mm	2500mm x 1200mm	20	60m ²	Approx. 48.3 kg	Approx. 965kg
20mm	2500mm x 1200mm	20	60m ²	Approx. 53.5 kg	Approx. 1070kg
25mm	2500mm x 1200mm	15	45m ²	Approx. 67.3 kg	Approx. 1010kg

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.

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

 www.promat.com

 [Promat Asia Pacific](#)

- 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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