

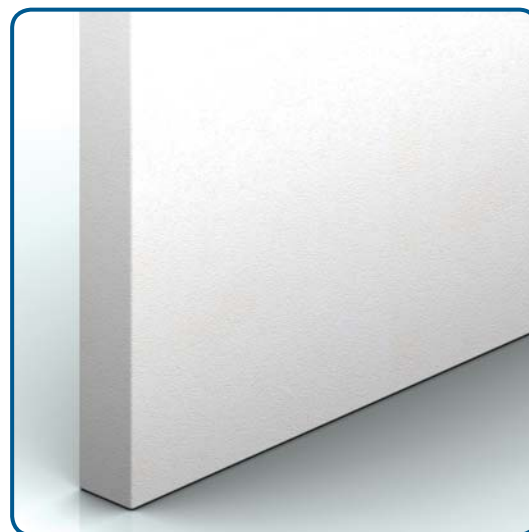
General Description

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.

A health and safety data sheet is available from Promat and, as with any other material, should be read before working with the board. The board is not classified as a dangerous substance so no special provisions are required regarding the transportation and the disposal of the product to landfill. They can be placed in on-site rubbish skips with other general building waste which should then be disposed by a registered contractor in the appropriate and approved manner.



Typical Mechanical Properties

Flexural strength, $F_{rupture}$ (BS EN 310: 1993)	Longitudinal N/mm ²	4.5
Tensile strength, $T_{rupture}$ (BS 5669: Part 1: 1989)	Longitudinal N/mm ²	1.02
	Transverse N/mm ²	0.98
Compressive strength (average, perpendicular on board face) (BS 5669: Part 1: 1989)	N/mm ²	5.99

Annotation and/or video of the applications is available in digital format. For system details, please refer to <http://www.promat-ap.com>. For general information of cutting, fixing, fabrication, flush jointing and finishing of these systems, please refer to pages 37 to 43 of the 2012 edition handbook.

Applications

- Structural steel protection
- Steel/timber stud partitions, solid/frameless partitions
- Self-supporting ceilings
- Timber floor protection, mezzanine floor
- Access hatches, fire doors

General Technical Properties

Product generic description	PROMAXON® mineral board
Material class (DIN 4102: Part 1: 1998, BS 476: Part 4: 1970 and AS 1530: Part 1: 1994)	Non combustible
Surface spread of flame (BS 476: Part 7: 1997 and AS/NZ 53837: 1998 cone calorimeter test group 1)	Class 1
Building regulations classification	Class 0
Nominal density at EMC* (average)	kg/m ³ 850 nominal (dry)
Alkalinity (approximate)	pH 9
Thermal conductivity (approximate) at 20°C (ASTM C518: 1991)	W/m ² K 0.164
Coefficient of expansion	m/mk -16×10^{-6}
Typical moisture content (dry at 40°C)	2%
Thickness tolerance of standard boards	mm ± 0.5
Length x Width tolerance of standard boards	mm $\pm 0-3$
Surface condition	Front face: smooth Back face: sanded

Thickness (mm)	Standard dimensions (mm x mm)	Number of boards per pallet	Surface per pallet (m ² /pallet)	Weight per m ² of sheet (approximate kg/m ²)	Weight per pallet (approximate kg)
8	2500 x 1200	50	150	7.1	1140
10	2500 x 1200	40	120	8.8	1110
12	2500 x 1200	30	90	10.6	1020
15	2500 x 1200	25	75	12.8	1010
18	2500 x 1200	20	60	15.3	965
20	2500 x 1200	20	60	17	1070
25	2500 x 1200	15	45	21.3	1010

*EMC: Equilibrium moisture content. The properties in above tables are mean values given for information and guidance only. If certain properties are critical for a particular application, it is advisable to consult Promat.

PROMATECT® 100 is manufactured under a quality management system certified in accordance with ISO 9001: 2008. The product has passed the site audit in accordance with the environmental standards of ISO 14001: 2004 and occupational health and safety requirements of OHSAS 18001: 2007.

WHEN MACHINING THIS PRODUCT, AIRBORNE DUST MAY BE RELEASED, WHICH MAY BE HAZARDOUS TO HEALTH. DO NOT INHALE THE DUST. AVOID CONTACT WITH SKIN AND EYES. USE DUST EXTRACTION EQUIPMENT. RESPECT REGULATORY OCCUPATIONAL EXPOSURE LIMITS FOR TOTAL INHALABLE AND RESPIRABLE DUST. FOR MORE INFORMATION PLEASE CHECK THE APPROPRIATE MATERIAL SAFETY DATA SHEET, AVAILABLE UPON REQUEST.