

## General Description

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

PROMATECT®-H is off-white in colour and has a smooth finish on one face with a sanded reverse face. The board can be left undecorated or easily finished with paints, wallpapers or tiles.

PROMATECT®-H 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.

PROMATECT®-H can be produced with bevelled edges for use in partitions and suspended ceilings using a concealed grid system.

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

Modulus of elasticity, E (BS EN 310: 1993)	Longitudinal N/mm <sup>2</sup>	4995
	Transverse N/mm <sup>2</sup>	4389
Flexural strength, F <sub>rupture</sub> (BS EN 310: 1993)	Longitudinal N/mm <sup>2</sup>	10
	Transverse N/mm <sup>2</sup>	6
Tensile strength, T <sub>rupture</sub> (BS 5669: Part 1: 1989)	Longitudinal N/mm <sup>2</sup>	7.16
	Transverse N/mm <sup>2</sup>	4.94
Compressive strength (average, perpendicular on board face) (BS 5669: Part 1: 1989)	N/mm <sup>2</sup>	11.36

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.

## General Technical Properties

Product generic description	Matrix engineered 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) (AS 1530: Part 3: 1989)	Class 1 Class 0,0,0,0	
Building regulations classification	Class 0	
Nominal density at EMC* (average)	kg/m <sup>3</sup>	975
Alkalinity (approximate)	pH	12
Thermal conductivity (approximate) at 40°C (ASTM C518: 1991)	W/m <sup>2</sup> K	0.242
Coefficient of expansion	m/mk	-6.4 x 10 <sup>-6</sup>
Nominal moisture content at EMC*	6%	
Thickness tolerance of standard boards	mm	± 0.5
Length x Width tolerance of standard boards	mm	± 5
Surface condition	Front face: smooth Back face: sanded	

Thickness (mm)	Standard dimensions (mm x mm)	Number of boards per pallet	Surface per pallet (m <sup>2</sup> /pallet)	Weight per m <sup>2</sup> of sheet (approximate kg/m <sup>2</sup> )	Weight per pallet (approximate kg)
9	2440 x 1220	61	181.5	8.77	1688
12	2440 x 1220	46	136.9	11.7	1698
15	2440 x 1220	36	107.2	14.6	1662
20	2440 x 1220	27	80.4	19.5	1664
25	2440 x 1220	22	65.4	24.3	1681

\*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®-H 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.

AS FOR ALL NATURAL MATERIALS SUCH AS CONCRETE AND CLAY, QUARTZ CAN BE PRESENT AND THIS PRODUCT MAY ALSO RELEASE DUST CONTAINING QUARTZ PARTICLES WHEN IT IS MECHANICALLY MACHINED (CUTTING, SANDING, DRILLING). INHALATION OF HIGH CONCENTRATIONS OF DUST CAN IRRITATE THE RESPIRATORY SYSTEM. DUST CAN ALSO IRRITATE THE EYES AND/OR THE SKIN. THE INHALATION OF QUARTZ CONTAINING DUST, IN PARTICULAR HIGH CONCENTRATIONS OF FINE (RESPIRABLE) DUST OR OVER A PROLONGED PERIOD OF TIME CAN LEAD TO LUNG DISEASE (SILICOSIS) AND AN INCREASED RISK OF LUNG CANCER. AVOID INHALATION OF DUST BY USING MACHINERY WITH DUST EXTRACTION. GUARANTEE ADEQUATE VENTILATION ON THE WORK FLOOR. AVOID CONTACT WITH THE EYES AND SKIN AND AVOID INHALATION OF THE DUST BY WEARING APPROPRIATE PERSONAL PROTECTION GEAR (SAFETY GOGGLES, PROTECTIVE CLOTHING AND DUST MASK). FOR MORE INFORMATION PLEASE CHECK THE APPROPRIATE MATERIAL SAFETY DATA SHEET, AVAILABLE UPON REQUEST.

## Applications

- Structural steel protection
- Steel/timber stud partitions, solid/frameless partitions
- Conversion of external to internal walls, external walls
- Self-supporting ceilings, suspended ceilings
- Timber floor protection, upgrading of timber floors
- Cladding to steel ducts, self-supporting ducts
- M&E services enclosure
- Smoke barrier, parapet/spandrel wall
- Access panels and hatches, fire doors
- Tunnel lining, concrete/brick floor and wall upgrading