

General Description

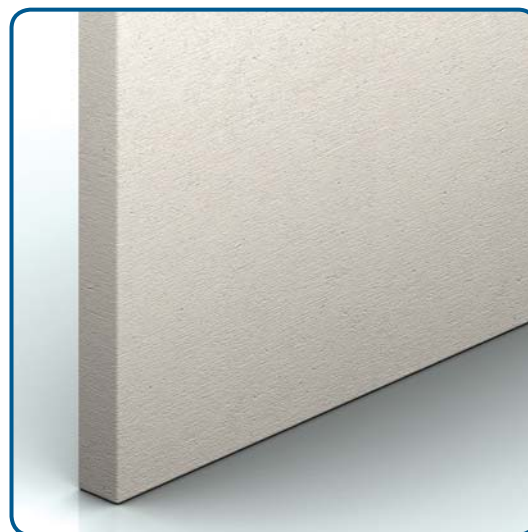
PROMINA[®]-HD is a non combustible fibre silicate board manufactured from a homogeneous mixture of Portland cement with selected fibres and fillers. It does not contain formaldehyde.

PROMINA[®]-HD is off-white in colour and has a smooth finish on one face with a dimple pattern on the reverse face. The architectural appeal of the board surface is ready for most forms of decoration.

PROMINA[®]-HD 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.

PROMINA[®]-HD is suitable for both internal and external applications. It is also designed to withstand the most demanding exposure conditions experienced in external applications as well as being hard wearing, impact and abrasion resistant.

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 ²	11.04
	Transverse N/mm ²	10.80
Flexural strength, F _{rupture} (BS EN 310: 1993)	Longitudinal N/mm ²	13
	Transverse N/mm ²	10
Tensile strength, T _{rupture} (ASTM D1037: 1978)	Longitudinal N/mm ²	7.7
	Transverse N/mm ²	5
Compressive strength (average, perpendicular on board face) (BS 5669: Part 1: 1989)	N/mm ²	21.14

Applications

- External wall cladding/lining, external wall infill panel
- Acoustic wall lining
- Eaves, fascia and soffit linings
- Eave, fascia and soffit linings
- Internal partition and ceiling linings
- Backing panel for wet and tiled areas
- Thermal insulation infill panel
- Fire doors

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	Fibre silicate board
Material class (BS 476: Part 4: 1970 and AS 1530: Part 1: 1994)	Non combustible
Surface spread of flame (BS 476: Part 7: 1997 and AS 1530: Part 3: 1989)	Class 1
Building regulations classification	Class 0
Nominal density at EMC* (average)	kg/m ³ 1300
Alkalinity (approximate)	pH 10
Thermal conductivity (approximate) at 40°C (ASTM C518: 1991)	W/m ² K 0.187
Water absorption capacity (average)	g/cm ³ 19
Nominal moisture content at EMC*	6%
Thickness tolerance of standard boards	mm - 0.5, + 0.75
Length x Width tolerance of standard boards	mm ± 2
Surface condition	Front face: smooth Back face: dimple pattern

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)
4.5	2440 x 1220	120	357	5.85	2213
6	2440 x 1220	90	268	7.80	2214
7.5	2440 x 1220	72	214	9.75	2213
9	2440 x 1220	61	181.5	11.7	2252
12	2440 x 1220	46	136.9	15.6	2264
15	2440 x 1220	36	107.2	19.5	2216
20	2440 x 1220	27	80.4	26.0	2215

*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.

PROMINA[®]-HD 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.