

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 is formulated without inorganic fibres and does not contain formaldehyde. It is designed for both internal and external applications. The product is also designed to withstand the most demanding of exposure conditions experienced in external applications as well as being hard wearing, impact and abrasion resistant.

PROMINA®-HD is off-white in colour and has a smooth finish on one face with a dimple pattern on the reverse face. PROMINA®-HD provides an architectural surface ready to receive most forms of decoration. Please consult the Promat Technical Department for more information.

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.

A health and safety data sheet is available from the Promat Technical Department and, as with any other materials, 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 carriage and the disposal of the product to landfill. They can be placed in an on-site skip with other general building waste which should then be disposed by a registered contractor.



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	5.0
Compressive strength (average, perpendicular on board face) (BS5669: Part 1: 1989)		N/mm ²	21.14

Applications

- Internal ceilings and partitions, ceiling linings
- Thermal insulation
- Wet and/or tiled areas
- Eaves and soffit linings
- External claddings
- Wall over cladding to high-rise buildings
- Fascia linings
- Acoustic walls and soffit linings
- Fire resistant walls and linings
- External infill panels

General Technical Data

Product generic description		Fibre silicate board				
Material class		Non-combustible to BS476: Part 4 and AS1530: Part 1.				
Surface spread of flame		Class 1 to BS476: Part 7 and AS1530: Part 3.				
Building regulations classification		Class 0				
Nominal density at EMC* (average)		kg/m ³	1300			
Alkalinity (approximately)		pH	10			
Thermal conductivity (approximately) at 40°C (ASTM C518: 1991)		W/m ² K	0.187			
Nominal moisture content at EMC*		%	6			
Water absorption capacity (average)		g/cm ³	19			
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, dry (approximately) (kg/m ²)	Weight per m ² of sheet at 20°C, 65% RH (approximately) (kg/m ²)	Weight per pallet (approximately) (kg)
4.5	2440 x 1220	120	357	5.85	6.20	2213
6	2440 x 1220	90	268	7.80	8.26	2213
7.5	2440 x 1220	72	214	9.75	10.33	2210
9	2440 x 1220	61	181	11.7	12.40	2244
12	2440 x 1220	46	137	15.6	16.53	2264
15	2440 x 1220	38	113	19.5	20.67	2336
20	2440 x 1220	28	83	26.0	27.56	2288

*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 your nearest Promat Technical Department.

PROMINA®-HD is manufactured under a quality management system certified in accordance with ISO9001: 2000 Certification and in accordance with the environmental standards of ISO14001. For further technical information, please consult Promat.

GENERAL NOTE: AS FOR ALL QUARTZ CONTAINING PRODUCTS, SUCH AS CONCRETE AND CLAY, THIS PRODUCT WILL ALSO RELEASE DUST CONTAINING QUARTZ PARTICLES WHEN IT IS MECHANICALLY MACHINED (CUTTING, SANDING, DRILLING). INHALATION OF HIGH CONCENTRATIONS OF DUST CAN IRRITATE THE AIRWAYS. DUST CAN ALSO IRRITATE THE EYES AND/OR THE SKIN. THE INHALATION OF QUARTZ CONTAINING DUST, IN PARTICULAR HIGH CONCENTRATION 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 THE 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 THE APPROPRIATE PERSONAL PROTECTION GEAR (SAFETY GOGGLES, PROTECTIVE CLOTHING AND DUST MASK). FOR MORE INFORMATION PLEASE CHECK THE SAFETY DATA SHEET, AVAILABLE UPON REQUEST.