

Promat

PROMATECT®-H
Calcium Silicate Board

www.promat-tunnel.com





Introduction

PROMATECT®-H is a non-combustible matrix engineered mineral board reinforced with selected fibres and fillers. It is formulated without the use of 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.

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.

Advantages

- Resistant to the effects of moisture
- Not physically deteriorate when used in damp or humid conditions
- Performance characteristics are not degraded by age or moisture.

Applications

- Tunnel lining, concrete floor and wall upgrading
- M&E services enclosure
- Access panels and hatches, fire doors
- Structural steel protection
- Membrane ceilings
- Cladding to steel ducts, self-supporting ducts

Quality assurance

Promat products are manufactured to stringent quality control systems to assure that our customers receive materials made to the highest standards.

Operating to these standards means that all activities, which have a bearing upon quality, are set out in written procedures.

Systematic and thorough checks are made on all materials and their usage. Test equipment is subjected to regular checks and is referred back to national standards.

The information given in this data sheet is based on actual tests and is believed to be typical of the product. No guarantee of results is implied however, since conditions of use are beyond our control.

Fire protection thickness

Fire protection thickness requirements are often specified in the owner operator's engineering codes of practice.

Alternatively, please consult Promat

General technical properties

Product generic description	non-combustible, fire resisting calcium silicate board		
		DIN 4102, Part 1	
Combustibility	DIN 4102, Part 1 BS 476, Part 4 EN 13051-1:A1 (Classification Report WFRGent 11527C)	Non-combustible	
Board format (length x width)	mm	1250 x 2500	
Tolerance on length and width	mm	± 0.3	
Board thickness	mm	6, 8, 10, 12, 15, 20, 25	
Tolerances on thickness	mm	6 - 12 mm	± 0.5
		15 - 20 mm	± 1.0
		> 20mm	± 1.5
Density (nominal, oven dry)	Kg/m ³	ca. 870	
Alkalinity (approximate)	pH	12	
Thermal conductivity λ	W/m ² K	ca.0.175 (at 20°C)	
Water absorption	g/cm ³	0.50	
Moisture diffusion resistance	μ	ca. 20	
Typical moisture content (at EMC*)	%	5 - 10	
Surface conditions	Front face: smooth, unsanded Back face: textured and or sanded Colour: beige - white		
Storage	Store on flat surface, in a dry area.		

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.

Typical mechanical properties

Bending strength (longitudinal direction)	N/mm ²	7.6
Tensile strength (longitudinal direction)	N/mm ²	4.8
Compressive strength (perpendicular to the surface)	N/mm ²	9.3
Screw pull out resistance: screw into board surface - 15mm deep	quick fix screw - 3.9 x 55	624N
	quick fix screw - 4.0 x 40	584N
	quick fix screw - 4.5 x 50	581N
	timber screw - 3.9 x 55	550N
	screw inserts (Rampa)	350N
Bolt pull through resistance (board thickness = 25mm)	Bolt M8, washer diameter 30mm	3.220N

Formats & weights

Thickness (mm)	Dry weight (Kg/m ²)	Weight (Kg/m ²) at 20°C, 65% RH
6	ca. 5.4	ca. 5.7
8	ca. 7.2	ca. 7.6
10	ca. 9.0	ca. 9.5
12	ca. 10.8	ca. 11.5
15	ca. 13.1	ca. 13.9
20	ca. 17.4	ca. 18.5
25	ca. 21.8	ca. 23.1

* Project specific thickness can be manufactured in 1mm increments. Please contact Promat for further information

* EMC: Equilibrium moisture content.

Processing & machining

When machining the product with power tools, do not breathe dust and respect the regulatory occupational exposure limits for total inhalable and respirable dust. Wear safety goggles. Avoid contact with skin and eyes. Use dust extraction. In case of insufficient ventilation, wear suitable respiratory equipment to avoid health effects.

Waste disposal

Refer to local legislation

If not available: The board is not classified as a dangerous substance and no special provisions are required regarding the carriage and disposal of the product to landfill. They can be placed in an on-site skip with other general building waste.

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