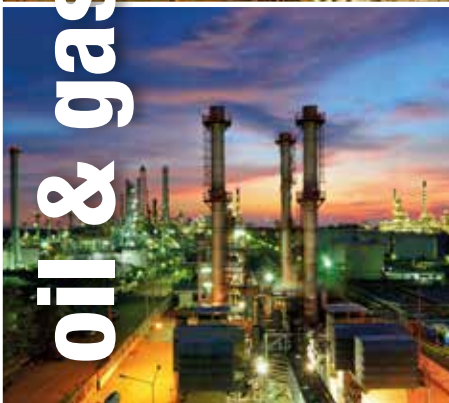
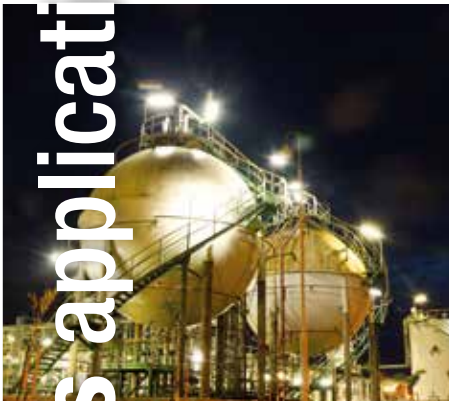


# PROMATECT®-H

Matrix Engineered Mineral Board



oil & gas applications

### 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.

### INTRODUCTION

PROMATECT®-H is a non-combustible matrix engineered mineral board reinforced with selected fibres and fillers. It is formulated without organic fibres and 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 plain or can be 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.



### GENERAL TECHNICAL DATA

<b>Product generic description</b>	non-combustible, fire resisting calcium silicate board		
<b>Combustibility</b>	DIN 4102, Part 1 BS 476, Part 4 EN 13051-1:A1 (Classification Report WFRGent 11527C)	Non-combustible	
<b>Board format (length x width)</b>	mm	1250 x 2500 ; 1250 x 3000 (not for all thickness)	
<b>Tolerance on length and width</b>	mm	± 0.3	
<b>Board thickness</b>	mm	6, 8, 10, 12, 15, 20, 25	
<b>Tolerances on thickness</b>	mm	6 - 12 mm 15 - 20 mm > 20mm	± 0.5 ± 1.0 ± 1.5
<b>Density (nominal, oven dry)</b>	Kg/m <sup>3</sup>	ca. 870	
<b>Alkalinity (approximate)</b>	pH	12	
<b>Thermal conductivity λ</b>	W/m <sup>2</sup> K	ca.0.175 (at 20°C)	
<b>Water absorption</b>	g/cm <sup>3</sup>	0.50	
<b>Moisture diffusion resistance</b>	μ	ca. 20	
<b>Typical moisture content (at EMC*)</b>	%	5 - 10	
<b>Surface conditions</b>	Front face: smooth, unsanded Back face: textured and or sanded Colour: beige - white		
<b>Storage</b>	Store on flat surface, in a dry area.		

\*EMC = Equilibrium moisture content

### MECHANICAL PROPERTIES

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

## APPLICATIONS

- Cable trays
- Electrical enclosures

## BOARD WEIGHTS

Thickness (mm)	Dry weight (Kg/m <sup>2</sup> )	Weight (Kg/m <sup>2</sup> ) 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

## PROCESSING & MACHINING

When machining the product with power tools, do not breathe the 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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