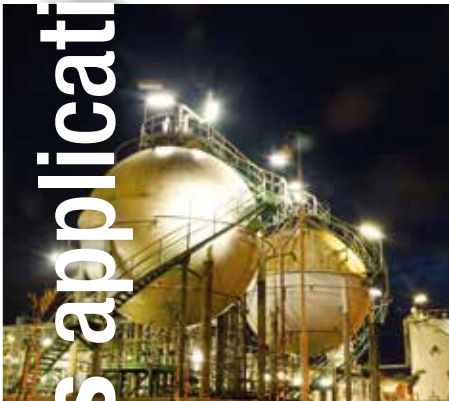


Promat[®]-L500

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

Promat®-L500 is a lightweight mineral matrix engineered board which is off-white/beige in colour and has a smooth sanded surface on one face with a lightly honeycombed texture on the reverse face.

Promat®-L500 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. Untreated surfaces will absorb water which can cause some loss of strength but strength is regained after drying. Promat®-L500 does not encourage mould growth and is resistant to attack by vermin.

Promat®-L500 is chemically inert and is resistant to diluted acids and alkalis. Boards should be protected where high chemical concentrations are likely to occur.



GENERAL TECHNICAL DATA

| Designation | Calcium Silicate Fire Protective Board | |
|------------------------------------|---|--------------------------------|
| Combustibility | DIN 4102, part 1 BS 476, part 4 AS 1503, part 1 EN 13501-1 (WFRGent Classification report 11529C) | Non-combustible |
| Board format (length x width) | mm | 1200 x 2500 |
| Tolerance on length and width | mm | ± 3 |
| Board thickness | mm | 20, 25, 30, 35, 40, 50, 52, 60 |
| Tolerances on thickness | mm | ± 0.5 |
| Density (nominal, oven dry) | Kg/m ³ | ca. 500 |
| Alkalinity (approximate) | pH | ca. 9 |
| Thermal conductivity λ | W/m ² K | ca. 0.09 (at 20°C) |
| Water absorption | g/cm ³ | 0.77 |
| Moisture diffusion resistance | μ | ca. 3.2 |
| Typical moisture content (at EMC*) | % | 3 - 5 |
| Surface conditions | Front face: smooth, sanded Back face: lightly honeycombed textured Colour: yellowish | |
| Storage | Store on flat surface, in a dry area. | |

*EMC = Equilibrium moisture content

MECHANICAL PROPERTIES

| | | |
|---|--|--------------|
| Bending strength (longitudinal direction) | N/mm ² | 3.0 |
| Tensile strength (longitudinal direction) | N/mm ² | 1.2 |
| Compressive strength (perpendicular to the surface) | N/mm ² | 5.5 |
| Screw pull out resistance: screwed in the surface | quick fix screw - 3.9 x 45 20mm deep screw inserts (Rampa) 15mm deep | 330N 301N |
| Screw pull out resistance: screwed in the edge | quick fix screw - 3.9 x 45 20mm deep quick fix screw - 3.9 x 45 30mm deep | 342N 510N |

APPLICATIONS

- Smoke Evacuation ducts
- Fireproof ventilation ducts
- Cable protection system

BOARD WEIGHTS

| Thickness (mm) | Dry weight (Kg/m ²) | Weight (Kg/m ²) at 20°C, 65% RH |
|----------------|---------------------------------|---|
| 20 | ca. 10.0 | ca. 10.5 |
| 25 | ca. 12.5 | ca. 13.1 |
| 30 | ca. 15.0 | ca. 15.8 |
| 35 | ca. 17.5 | ca. 18.4 |
| 40 | ca. 20.0 | ca. 21.0 |
| 50 | ca. 25.0 | ca. 26.3 |
| 52 | ca. 26.0 | ca. 27.4 |
| 60 | ca. 30.0 | ca. 31.5 |

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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