

Promat

Promat®-SYSTEMFLOOR Acoustic Floating Floor



www.promat-marine.com



etex industry



Introduction

Promat®-SYSTEMFLOOR is an acoustic floating floor, specifically developed for thermal and acoustic performance. Each flooring element is composed of two PROMINA® M boards, glued together with a 50mm overlapping system in order to allow system continuity on both length and width. The flooring must be glued using Promat®-SYSTEMFLOOR glue, that has been designed to ensure the necessary adhesion between the floor elements.

Advantages

- Resistant to high humidity
- High mechanical resistance
- Excellent dimensional stability

Application

- Acoustic floors

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.

Physical and technical properties (PROMINA® M board only)

Nominal density	1000kg/m ³ ±10%
Colour	Off White/Light grey
Bending strength (Modulus of Rupture)	10N/mm ²
Tensile strength - Longitudinal & Transverse	10.86N/mm ²
Compressive strength	10.70N/mm ²
Expansion in water saturation	≤ 1.0mm/m
Shear modulus	6,000N/mm ²
E-Modulus (Young modulus)	3031MPa
pH	10
Organic content	≤39%

Standard dimensions

Thickness (mm) ± 0.2mm	Length (mm) ± 1mm	Width (mm) ± 1mm	Overlap (mm)
18	1200	600	50

Acoustic insulation as per tests in certified laboratory

	4mm steel deck + 50mm 130kg/m ³ mineral wool + Promat®-SYSTEMFLOOR	3mm aluminium deck + 50mm 130kg/m ³ mineral wool + Promat®-SYSTEMFLOOR	40mm GRP deck + 50mm 130kg/m ³ mineral wool + Promat®-SYSTEMFLOOR
R _w (dB)	49	46	42
	4mm steel deck + 30mm floating structure (wood-cork-wood) + Promat®-SYSTEMFLOOR	3mm aluminium deck + 30mm floating structure (wood-corkwood) + Promat®-SYSTEMFLOOR	40 mm GRP deck + 30mm floating structure (wood-corkwood) + Promat®-SYSTEMFLOOR
R _w (dB)	45	40	37



Installation guidelines

Preparation

Promat®-SYSTEMFLOOR can be fixed on the flooring supporting structures with grid spacing of approximately 600mm centres, or laid directly onto mineral wool slabs having minimum density of 130kg/m³.



Workability

The boards can be cut by means of standard woodworking tools.

Laying of the boards

Cut the overlapping strip of boards "1" to "4" along the upper part and lay down the first elements onto the floor (figure 1). Then, cut board "5" to the appropriate dimension, removing the overlapping strip on the upper part, as for the first boards. The remaining part of the fifth board can be used as first element of the new row. Proceed for the remaining area as shown in figure 1.



Junctions

The joints are glued using Promat®-SYSTEMFLOOR glue (figure 2).

Two beads of glue are laid onto each connection border. The double nozzle of the PROMAT® SYSTEMFLOOR glue allows ease of application. A single cartridge will be sufficient for 15-20m² of finished floor. The glue dries in approximately 10 minutes after installation. The glued elements are then mechanically anchored by staples or screws. This operation is necessary only to allow the glue to cure during the first 24 hours. It is possible to walk/step on the floor as soon as it is laid and fixed by staples or screws. Once the glue has totally dried and hardened, any surplus glue can be removed by means of a blade or cutter.



The boards are mechanically fixed by means of staples or screws. The screws must not exceed the thickness of the supporting structure or blocks in order not to create a structural path for noise transmission.



Increasing acoustic performances

Promat®-SYSTEMFLOOR has excellent acoustic performance, but it can be further improved by incorporating PROMASOUND® TL with mineral wool, as shown, in order to increase its acoustic insulation over a wide range of frequencies (see picture on the right bottom side).

Finishing

Promat®-SYSTEMFLOOR can then be finished with a range of standard floor finishes.

figure 1

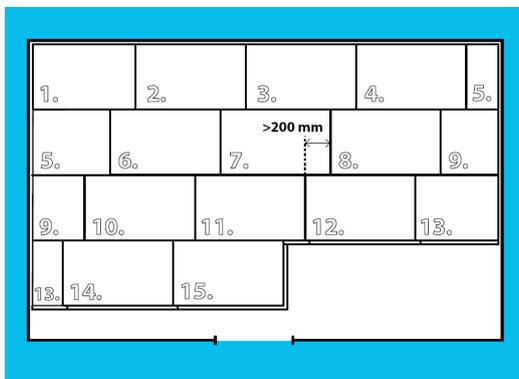
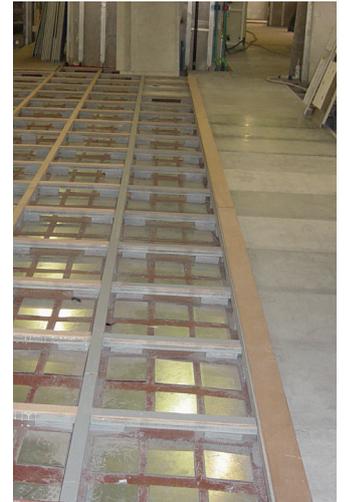
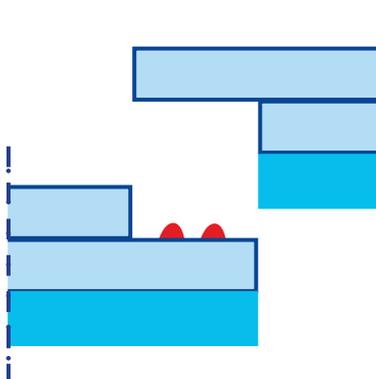


figure 2



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