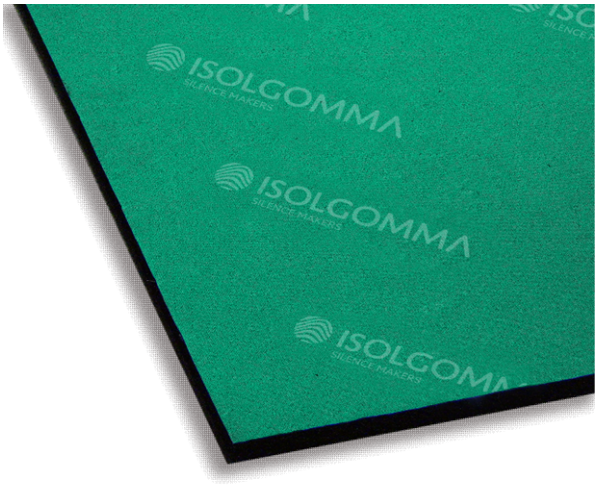
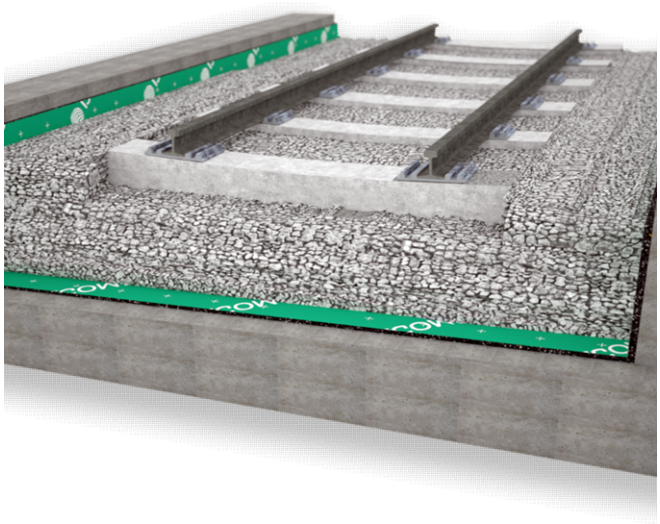
MATRACK 20 AVC 600
VIBRATION CONTROL

RAILWAY TRAM · RAILWAY TRAIN · RAILWAY METRO

VIBRATION INSULATION MAT FOR RAILWAY AND TRAMWAY STRUCTURES



TECHNICAL SPECIFICATION
20 mm thick anti-vibration panels, made of fibres and granules of SBR rubber (Stirene Butadiene Rubber), selected and compacted using a polyurethane glue in a hot process; density 600 kg/m³. A non-woven, nonstretch synthetic membrane is applied on one side of panel, for added protection. Panels' dimensions are 2,0m x 1,2m.



PROTECTION
The use of our protective mat extends thelife of the railway armament system

FLEXIBILITY
The anti-vibration sistem suits different types of applications

DURABILITY
Resistant to atmospheric agents; the presence of the anti-tear support gives the mat high mechanical performances

TO BE USED WITH
Vibrations insulation for Under Ballast Mats (UBM) and Under Slab Mats (USM) solutions.

PHYSICAL CHARACTERISTICS

Nominal thickness	20 mm
Length	2,0 m
Width	1,2 m

Density	600 kg/m^3
Quasi-static stiffness Kqs*	0,042 N/mm^3
Reaction to fire	B2

*Kqs (N/mm³) calculated as UNI11059.
The indicated value may change as the applied loads vary

AGEING TESTS - according to UNI 11059

ENVIRONMENTAL CONDITIONS TEST
Dynamic stiffness variation (%) in air at 70 °C ≤ 20%
Dynamic stiffness variation (%) in water at 50°C ≤ 15%
Dynamic stiffness variation (%) in ozone ≤ 20%
Dynamic stiffness variation (%) in water at -25°C ≤20%

FATIGUE TEST
Quasi-static stiffness variation (%) after 3x10^6 cycles ≤ 20%
Static stiffness variation after 50x106 cycles at 50 Hz under ballast plate (DB-TL 918071/2000) ≤ 12%

ISOLGOMMA SILENCE MAKERS

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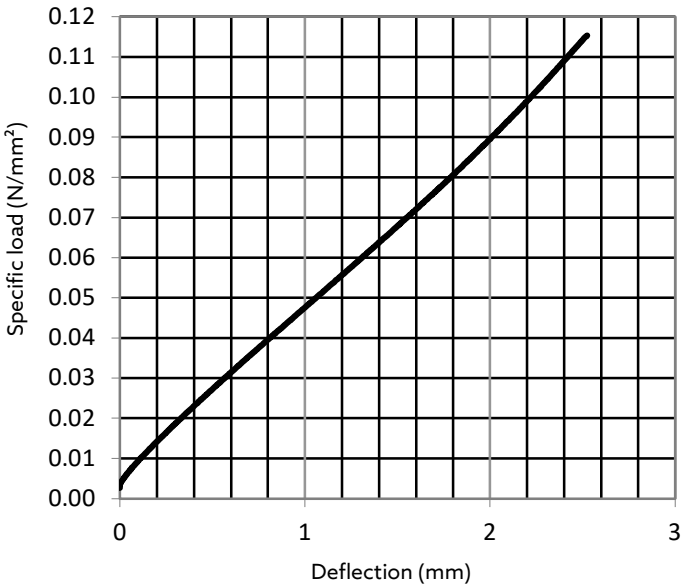
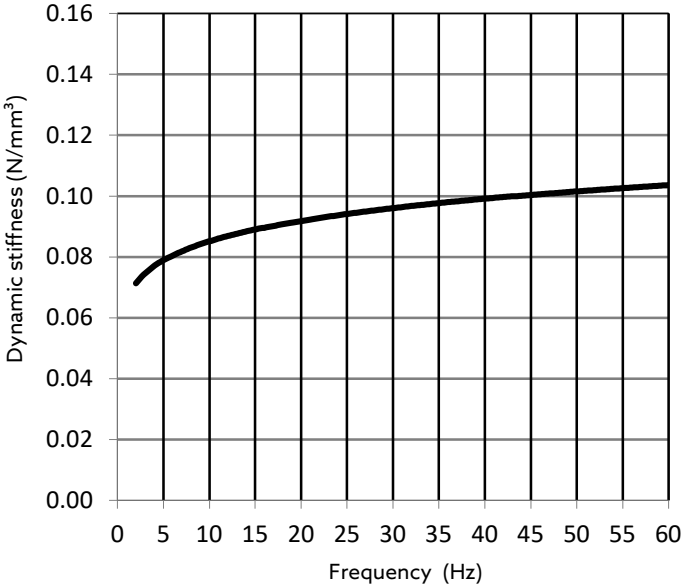
QUASI-STATIC STIFFNESS



DYNAMIC STIFFNESS



UNI 11059 - UNI 10570
σ = 0,12 N/mm²

LAYING INSTRUCTIONS

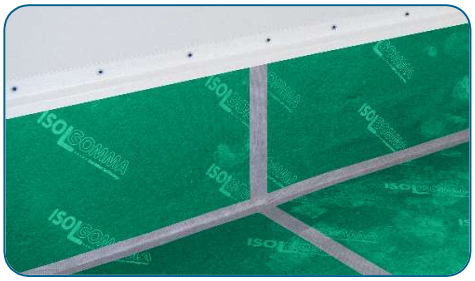
1

Lay the Matrack mats on the pit, without leaving gaps between adjacent mats or along the edges.

2

Seal the edges of the mats with Stik WP tape, taking care of the good adhesion of the tape to the mats. All the lines of junction have to be taped.

3



Place and fix the vertical mats with large headed screws or with adequate glue. Seal the vertical joints and fix the "Z" profyle on the top border of the vertical mat.

4

Example of a complete lay for a floating slab track.