

# MATRACK 20 AVC 700

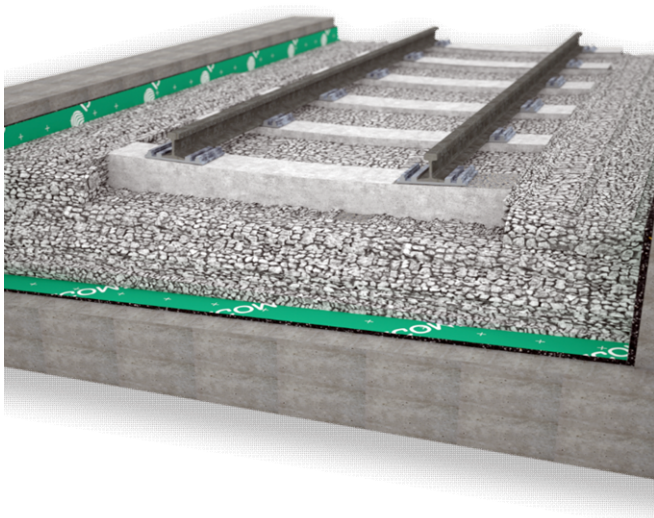
## VIBRATION CONTROL



### 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 700 kg/m<sup>3</sup>. A non-woven, nonstretch synthetic membrane is applied on one side of panel, for added protection. Panels' dimensions are 2,0m x 1,2m.



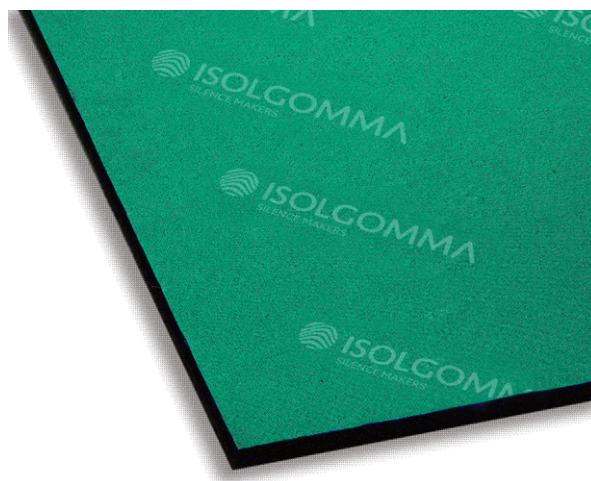
#### ■ PHYSICAL CHARACTERISTICS

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

#### ■ 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%



#### ■ PROTECTION

The use of our protective mat extends the life of the railway armament system

#### ■ FLEXIBILITY

The anti-vibration system 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.

Density	700 kg/m <sup>3</sup>
Quasi-static stiffness Kqs*	0,083 N/mm <sup>3</sup>
Reaction to fire	B2

\*Kqs (N/mm<sup>3</sup>) calculated as UNI11059.

The indicated value may change as the applied loads vary

##### FATIGUE TEST

Quasi-static stiffness variation (%) after 3x10<sup>6</sup> cycles ≤ 20%

Static stiffness variation after 50x10<sup>6</sup> cycles at 50 Hz under ballast plate (DB-TL 918071/2000) ≤ 12%

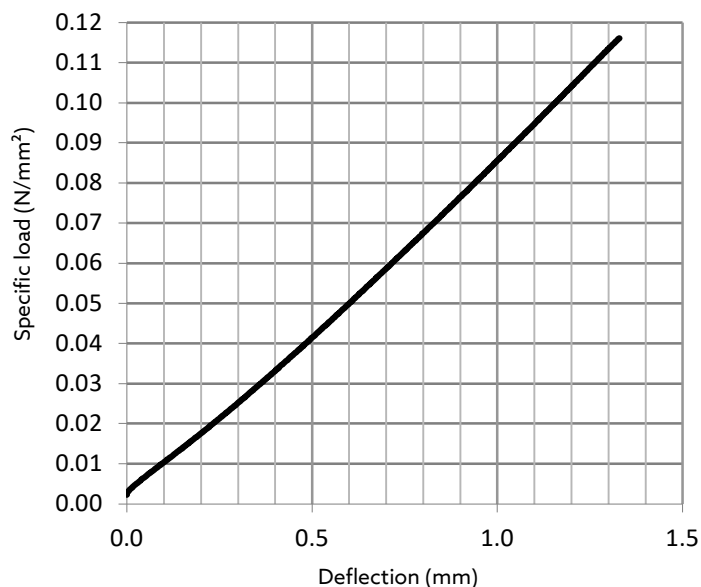


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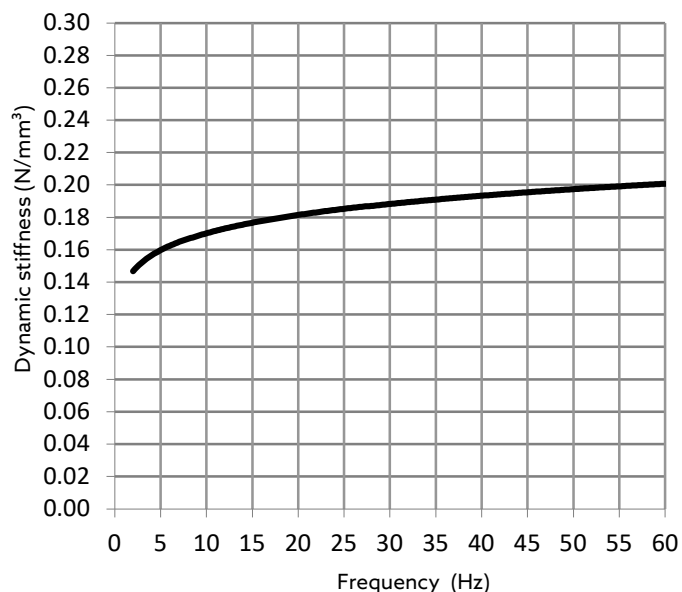
## VIBRATION CONTROL



### ■ QUASI-STATIC STIFFNESS



### ■ DYNAMIC STIFFNESS



UNI 11059 - UNI 10570  
 $\sigma = 0,12 \text{ N/mm}^2$

### ■ LAYING INSTRUCTIONS

1



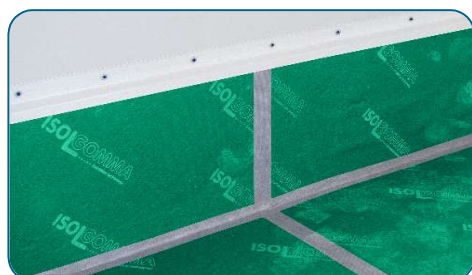
Lay the Matrack mats on the pit, without leaving gaps between adjacent mats or along the edges.

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" profile on the top border of the vertical mat.

4



Example of a complete lay for a floating slab track.