

1. Application Sector

DAMTEC® MSS K 25/7 is an isolation and protection mat with 25mm thickness for railway track constructions, proofed in accordance to DIN 45673-7.

The mat reduces structure borne sound and secondary airborne sound as well as emissions by vibrations. The field of application is in slab track systems (mass-spring-systems).

2. Material

Special mixture of recycled rubber granulate, cellular rubber and PU foam with a PU elastomer bonding agent.

3. Appearance

colour: multi coloured
surface: granular texture, with profile on one side

4. Dimensions/Tolerances

width:	1,250 mm	± 1.5 %
length:	4,000 mm	± 1.5 %
thickness:	25 mm	± 1.0 mm
density:	600 - 700 kg/m ³	
area weight:	approx. 10.5 kg/m ²	

(slabs and other lengths are possible on request for special projects)

5. Test Institutes

Tests in accordance to DIN 45673-7 are done at TU Munich and Müller BBM Planegg.

6. Installation

Installation has to be carried out in accordance with the **DAMTEC® MSS K** installation instructions.

7. Test Data

tensile strength: 0.15 - 0.55 N/mm² (ISO 1798)
 elongation at break: 40 - 70 % (ISO 1798)
 burning behaviour: E_{fl} (EN 13501-1)
 thermal resistance: - 30°C to + 80°C
 chemical resistance: conditionally resistant to acids and bases
 environmental resistance: oil-, aging-, rot-resistant and water-resistant
 resistance to oil: in accordance to DIN ISO 1817
 loss factor: < 0.25

static bedding modulus (C_{stat1}): 0.014 N/mm³ (0.014 - 0.045 N/mm²) (DIN 45673-7)
 static bedding modulus (C_{stat2}): 0.018 N/mm³ (0.010 - 0.092 N/mm²) (DIN 45673-7)
 static bedding modulus (C_{stat3}): 0.018 N/mm³ (0.014 - 0.092 N/mm²) (DIN 45673-7)
 resting value for bedding modulus (C_{stat0,z0}): 0.007 N/mm³ (0.014 - 0.010 N/mm²) (DIN 45673-7)
 resting value for bedding modulus (C_{stat0,z1}): 0.009 N/mm³ (0.014 - 0.045 N/mm²) (DIN 45673-7)
 dynamic bedding modulus (frequency dependent in N/mm³): (DIN 45673-7)

	0.014 N/mm ²	0.027 N/mm ²	0.040 N/mm ²
5Hz	0.018	0.027	0.034
10Hz	0.023	0.033	0.042
20Hz	0.027	0.040	0.051
30Hz	0.031	0.045	0.057

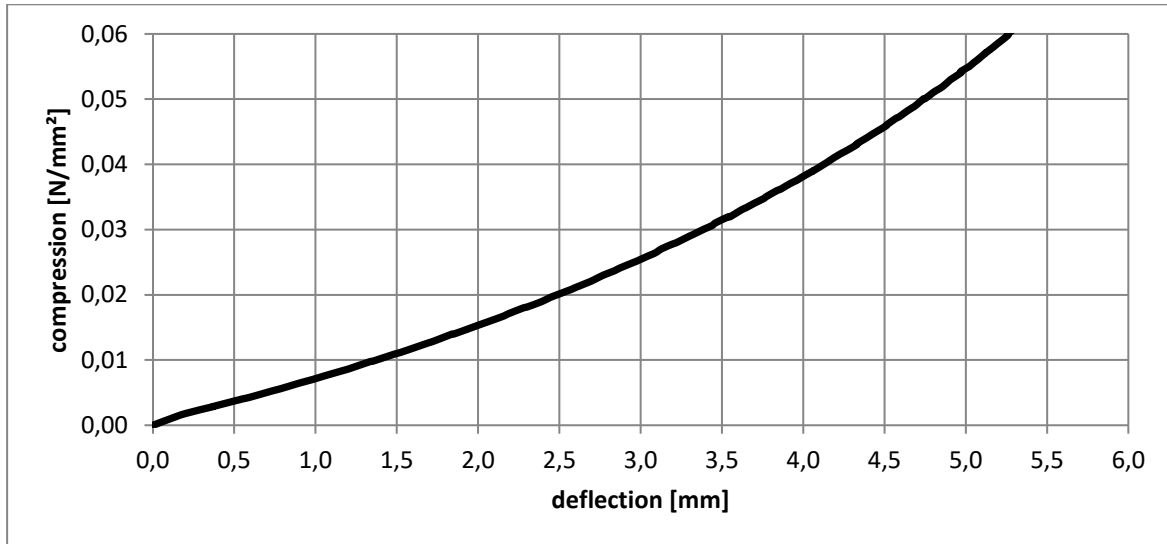
dynamic bedding modulus (temperature dependent in N/mm³): (DIN 45673-7)

	0.014 N/mm ²	0.027 N/mm ²	0.040 N/mm ²
30°C	0.019	0.027	0.035
0°C	0.029	0.041	0.053
-10°C	0.037	0.053	0.069
-20°C	0.055	0.079	0.102

further static bedding moduli in evaluation range:

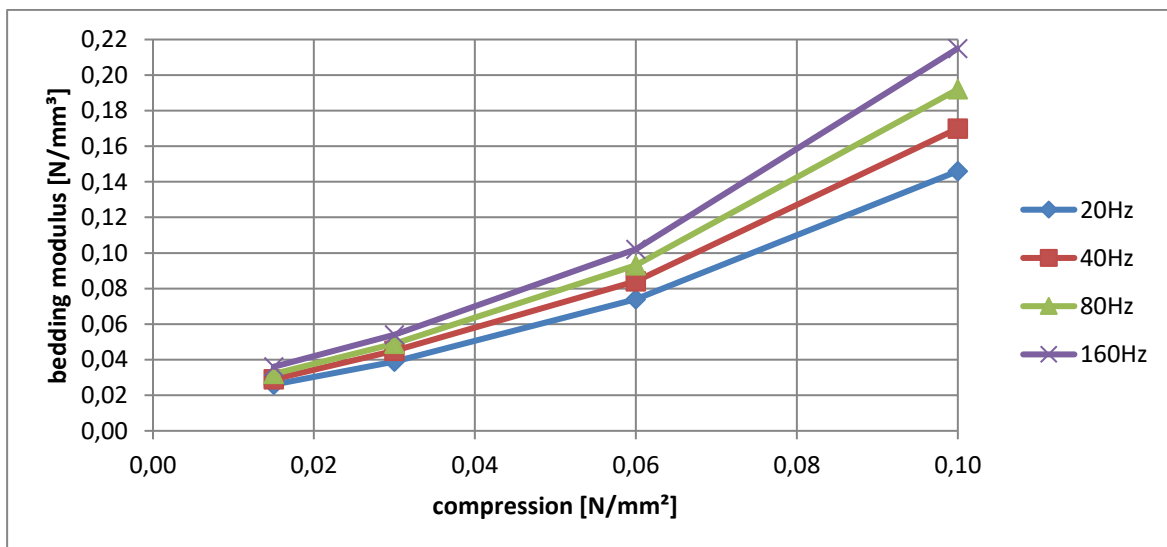
(0.005 N/mm² - 0.020 N/mm²): 0.008 N/mm³
 (0.005 N/mm² - 0.030 N/mm²): 0.010 N/mm³
 (0.005 N/mm² - 0.040 N/mm²): 0.010 N/mm³
 (0.005 N/mm² - 0.050 N/mm²): 0.011 N/mm³
 (0.010 N/mm² - 0.040 N/mm²): 0.011 N/mm³

8. Static Spring Characteristic:



(measured 3. loading, at room temperature, $v = 0.01 \text{ N/mm}^2$ per second, shape factor $q=3$).

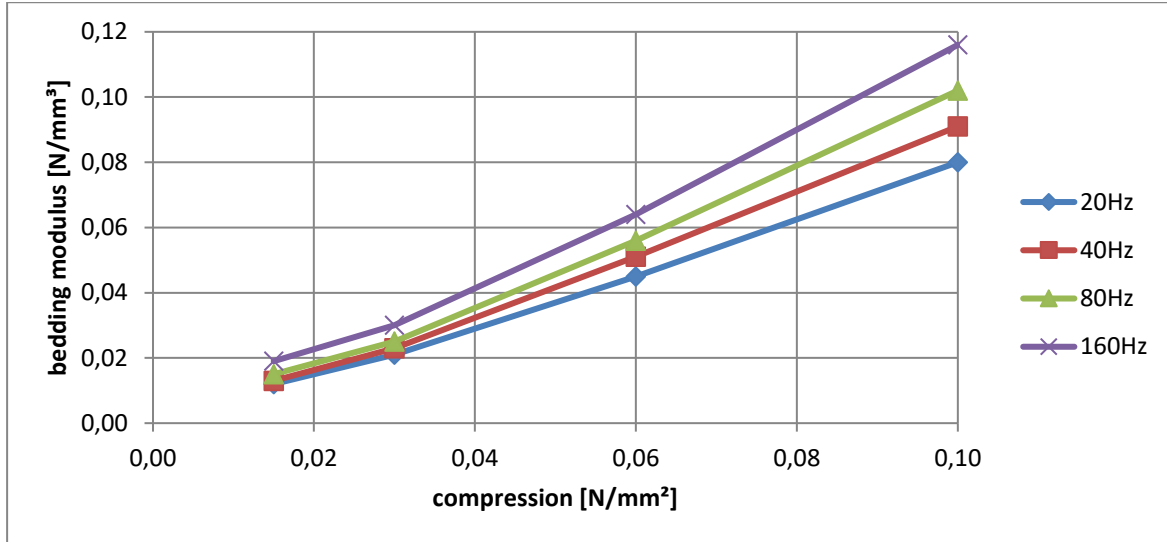
9. Dynamic Bedding Modulus (C_{dyn}):



(measured in acc. to DIN 45673-5; one layer).

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(measured in acc. to DIN 45673-5; two layer).

10. Accessories

- adhesive for vertical areas: Körapur 666 / Köracur TH 650
- tape AT169

DISCLAIMER:

This information is based on our tests and experiences and is provided to the best of our knowledge and beliefs. However, KRAIBURG RELASTEC does not guarantee in each individual case the use and processing results of its DAMTEC® products, due to the huge number of various fields of application as well as storage, processing or construction conditions which are beyond our control. Own tests are to be conducted. Please contact our technical customer service for any further advice.

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