Getzner Construction Mat CM-ER 0725
Application: Impact Noise

Elastic bearing mat for isolating floors or floor screeds subjected to heavy loads of up to 25 kN/m². It is designed to reduce the impact noise generated by industrial processes, machinery, or the movement of heavy transportation equipment.

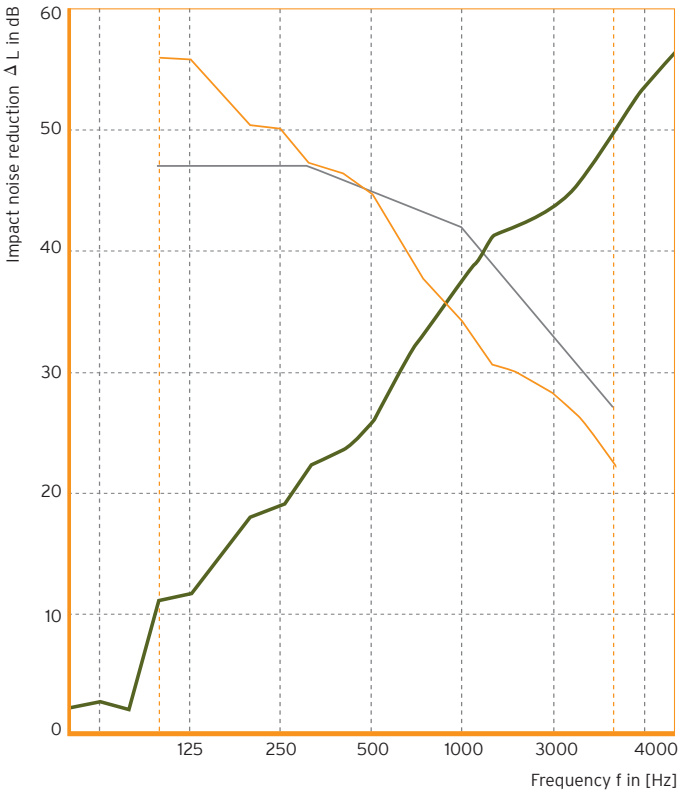
Product description
Elastic bearing mat made from 100 % polyurethane. The underside is moulded (ratio of 16/9). CM-ER 0725 retains its elasticity and shape and is resistant to rot over long periods. It ages superbly well. It has a mixed cellular structure. The material used is volume-compressible. This ensures the product remains largely effective, even if subjected to excessive loads for short periods.

Dimensions upon delivery:	1500 mm x 750 mm x 16(9) mm
Batch size:	101.25 m²/pallet
Weight per mat:	3 kg
Temperature range during use:	between -30 °C and 70 °C, higher temperatures permissible for short periods

Material properties

Dyn. stiffness s'	≤13 MN/m³	as per EN 29052-1
Compressibility c (d_L-d_B)	max. 2 mm	as per EN 12431
Thermal conductivity	0.05 W/mK	as per DIN EN 12667
Friction coefficient (concrete)	0.7	dry, even surface (not moulded)
Inflammability	B2 (normal inflammability), Class E	as per DIN 4102 as per EN 13501-1
Fitting information	Make sure surfaces are even, swept clean, and dry. Use a single layer only. See laying instructions for details. These are enclosed with every delivery.	

Rate of impact (footfall) noise reduction as per DIN-EN ISO 140-8



Test installation
80 mm cement screed; 179 kg/m², CM-ER 0725 with wave cut in a downwards direction m'~2.5 kg/m²; 160 mm reinforced ceiling, m'~400 kg/m²

f [Hz]	ΔL [dB]	$L_{n,r}$
50	2.3	
63	2.9	
80	2.3	
100	11.0	56.0
125	11.7	55.8
160	14.8	53.2
200	18.1	50.4
250	18.9	50.1
315	22.2	47.3
400	23.5	46,5
500	25.8	44.7
630	30.4	40.6
800	34.6	36.9
1000	37.7	34.3
1250	41.2	30.8
1600	42.2	29.8
2000	43.8	28.2
2500	46.2	25.8
3150	49.6	22.4
4000	53.6	
5000	56.4	

Assessment of rate of impact (footfall) noise reduction
$\Delta L_{n,wP}$ = 33 dB As per DIN EN ISO 140-8,
$\Delta L_{n,wR}$ = 31 dB Calculation value for DIN 4109

$L_{n,r}$
Offset reference curve
Measured curve