

TECHNICAL DATA SHEET

F-MUTE SYSTEM 23

Soundproofing system

Product description and Technical Specification:

F - MUTE SYSTEM 23 is high effective sound insulation for floors suitable for both impact and airborne noise. Its sound insulating properties are guaranteed by the combination of thick and elastic high-effective layers.

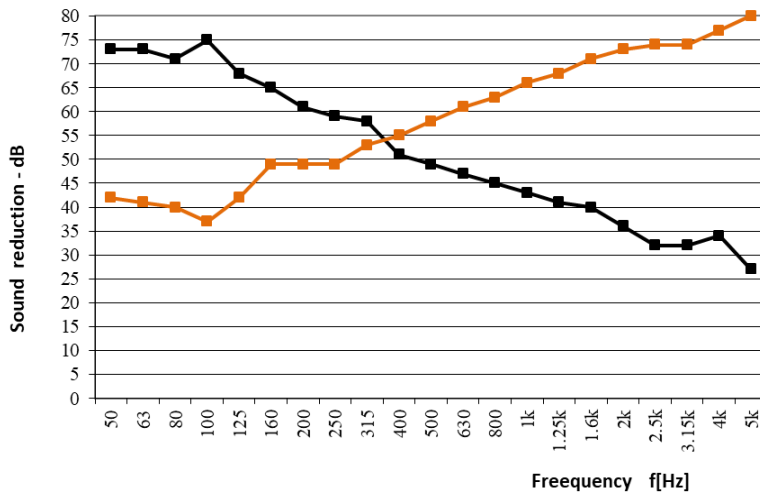
What allows DECIBEL to ensure the quality and efficiency of the system is that its soundproofing parameters are simulated using FEM and after that verified with laboratory tests.

Installed over existing floors from reinforced concrete and metal constructions over flat surface also over existing floorings/tiles, old parquet. Over it can be laid ceramic tiles, natural and laminated parquet, carpet and other floorings.



- Panel-wall contacting area: less than 1 %
- Sound reduction index for air born noise $R_w=61$ dB
- Sound reduction index impact noise $L_{n,w}=58$ dB

PHYSICAL CHARACTERISTICS	Unit	Value	Tolerance
Thickness	mm	23	±0%
Length	mm	1200	±0%
Width	mm	1000	±0%
Weight	kg	17,4	±0%



Sound absorption coefficient					
f [Hz]	R_w	$L_{n,w}$	f [Hz]	R_w	$L_{n,w}$
50	42	73	500	58	49
63	41	73	630	61	47
80	40	71	800	63	45
100	37	75	1k	66	43
125	42	68	1.25k	68	41
160	49	65	1.6k	71	40
200	49	61	2k	73	36
250	49	59	2.5k	74	32
315	53	58	3.15k	74	32
400	55	51	4k	77	34

* Description of the tested sample: Concrete slab with thickness 150 mm ($\rho:2340$ kg/m³, $E:11$ GPa, $\eta:0.04$, $\rho_s:351$ kg/m²), panel size 2,4x2,4 m, clad with F-Mute system 23 filled gaps and joints with acoustic mastic DCIant and embossing the perimeter of the wall with DCstript.

PACKING AND STORING

On pallets 130 x 110 x 150cm, 50 panels on pallet, weight 870kg/pallet, stretched with folium.