

F-MUTE SYSTEM 23

ULTRA-THIN FLOOR SOUNDPROOFING SYSTEM

F-MUTE SYSTEM 23 is a compact floor soundproofing system engineered to improve both airborne and impact sound insulation while adding only 23 mm of panel thickness. Its dense fibreboard and resilient acoustic foam backing create a decoupled layer between the supporting floor and the final floor build-up.

Designed for concrete, steel and timber floor structures. Suitable below laminate, parquet, carpet, lino, engineered boards and tiled finishes, subject to the correct finishing build-up and installation method.



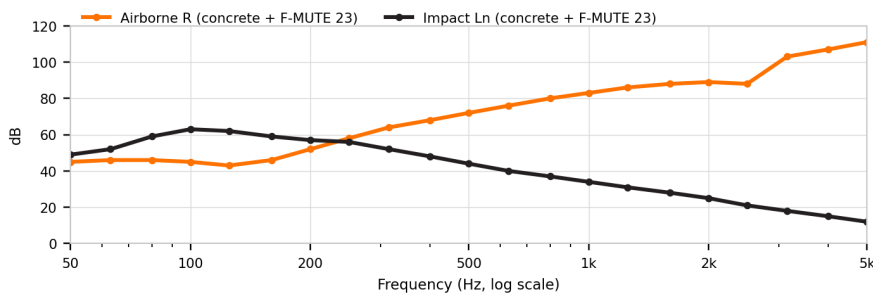
AIRBORNE INSULATION

R_w 68 dB

IMPACT SOUND PRESSURE LEVEL

L_{n,w} 52 dB

ACOUSTIC PERFORMANCE



ACOUSTIC PERFORMANCE BY FREQUENCY

f [Hz]	R [dB]	L _n [dB]	f [Hz]	R [dB]	L _n [dB]
50	45	49	630	76	40
63	46	52	800	80	37
80	46	59	1000	83	34
100	45	63	1250	86	31
125	43	62	1600	88	28
160	46	59	2000	89	25
200	52	57	2500	88	21
250	58	56	3150	103	18
315	64	52	4000	107	15
400	68	48	5000	111	12
500	72	44			

REFERENCE ASSEMBLIES

Airborne: INSUL v8.0.12 model of F-MUTE 23 over 200 mm concrete; R_w = 68 dB, C = -4 dB, C_{tr} = -10 dB; general prediction margin R_w +/- 3 dB.

Impact: INSUL v8.0.12 model of F-MUTE 23 over 200 mm concrete; L_{n,w} = 52 dB, C₁ = 0 dB; general prediction margin L_{n,w} +/- 5 dB.

TECHNICAL DATA

Panel dimensions	1200 x 1000 x 23 mm
Coverage	1.20 m ² / panel
Weight	17.4 kg / panel
Composition	Dense fibreboard + acoustic foam
Fire classification	B, s1-d0
Typical substrates	Concrete / steel / timber
Perimeter contact area	< 1%

INSTALLATION ESSENTIALS

- 1 Prepare & isolate**
Level substrate; apply DCstrip around the perimeter before laying panels.
- 2 Lay & seal panels**
Install panels tightly. Seal panel joints with DClant acoustic sealant.
- 3 Finish the build-up**
Fit 15 mm gypsum fibreboard for flooring using DCscrew 30 mm fasteners.

PACKING & STORAGE

46 panels / pallet. Approx. 870 kg / pallet. Store dry and protected from weather and mechanical damage.