

Sound transmission loss ISO 140-3

Client: HUFCOR Deutschland GmbH
Triftweg 34
06847 Dessau

Measurement of the sound transmission loss of building components in the test stand

Manufacturer: HUFCOR Deutschland GmbH
Test object installed by: Client
Structure of the test object:

Product description: mobile partition wall, type 100 /
Designation of the test rooms: test room / test room
Date of the test: 12 January 2006

Mobile double partition wall made of wooden panels, type 100 / 100 K / 7000
19 mm boarding of coated chipboard panels, area-related weight: 13.5 kg/m² (manufacturer's data)
9 mm heavy mats (5.5 mm and 3.5 mm clamped), area-related overall weight: 15 kg/m² (manufacturer's data)
67 mm cavity, filled with 45 mm fireproofing mineral fibreboards (product designation indicated by the Client: Rockwool, weight by volume as stated by the manufacturer: approx. 95 kg/m³), loosely inserted
5.5 mm heavy mat (clamped), area-related weight: 10.0 kg/m² (manufacturer's data)
19 mm boarding of coated chipboard panels, area-related weight: 13.5 kg/m² (manufacturer's data)

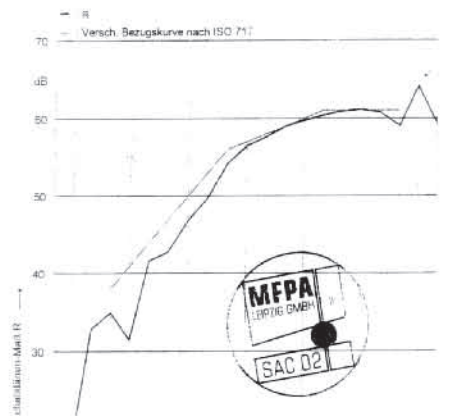
The partition wall consisted of 2 normal elements and a telescope element with telescoping lifting part.
Overall thickness of the wall: 119.5 mm
Area-related weight (acc. to manufacturer): 53.425 kg/m² plus frame and mechanism

The telescoping lifting part consisted of an aluminium frame that was internally and externally loaded by 5.5 mm heavy mat (m' = 20.0 kg/m² on each side) on both sides. An 8 mm thick chipboard panel was additionally attached to one side.

A detailed description of the suspension of the elements and the type of seals is given in par. 2 of the test report.

Test areas: 10.1 m²
Area-related weight: 53.4 kg/m²
Temperature [°C]: 16
Humidity [%]: 55
Volume of source room: 61.6 m³
Volume of receiving room: 57.8 m³

Frequency [Hz]	R Third octave [dB]
50	21.5
63	17.8
80	32.8
100	34.9
125	31.4
160	41.6
200	42.8
250	46.8
315	49.7
400	54.1
500	56.5
630	57.6
800	59.0
1000	59.7
1250	60.4
1600	60.9
2000	61.1
2500	60.7
3150	59.0
4000	64.2
5000	59.3



Rating acc. to ISO 717-1
R_w (C; C_v) = 57 (-4; -9) dB

C₅₀₋₃₁₅₀: -7 dB C₅₀₋₅₀₀₀: -6 dB C₁₀₀₋₅₀₀₀: -3 dB
C_{v50-3150}: -18 dB C_{v50-5000}: -18 dB C_{v100-5000}: -9 dB

The calculation is based on the measuring results in the test stand obtained in the third-octave bands.

MFPA Leipzig GmbH
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[Logo: MFPA]

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