

Sound Insulation Index ISO 140-3:1995

Laboratory measurement of airborne sound insulation
Sponsor: Sauerland Spanplatte



Internal Test

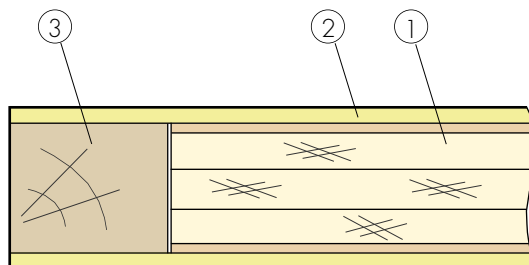
Construction of the test specimen:

Door leaf 1000 x 2000 x 56 mm

1 : 45 S3K (3mm Cork/ 3x13 mmVL/ 3mm Cork)

2 : HDF 5 mm

3 : Sipo 50 mm



Test opening: 2,00 m²

Weight of test specimen: 33,13 kg/m²

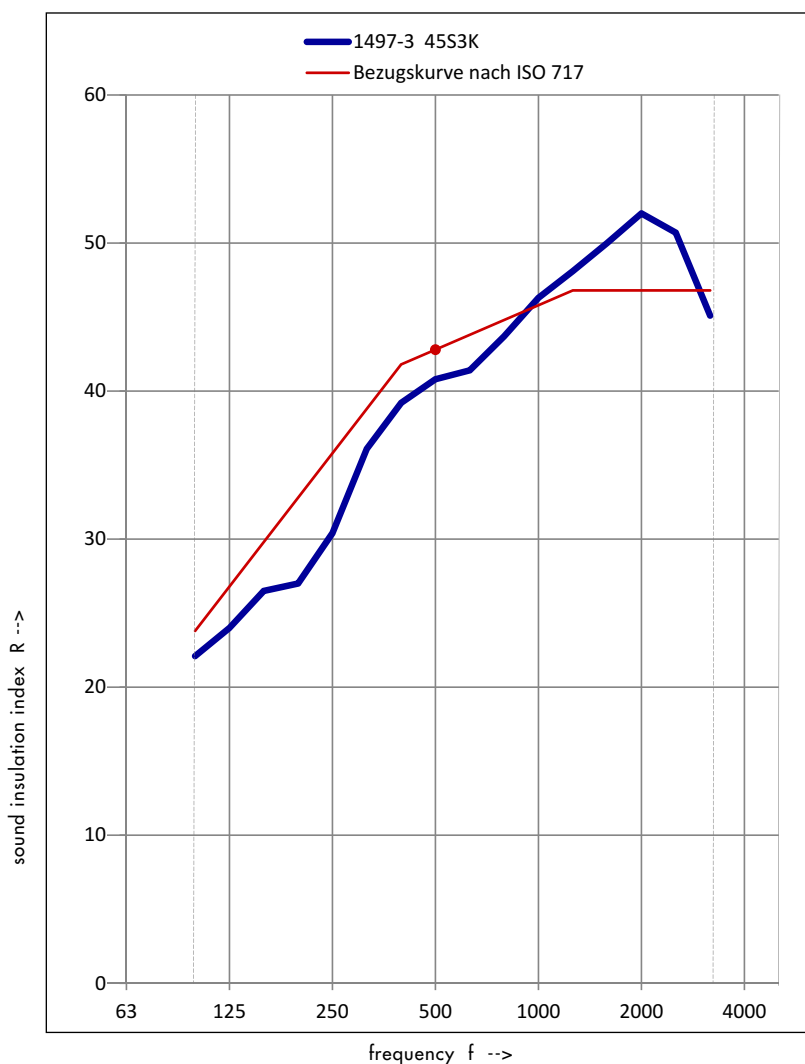
Temperature [°C]: 18

Humidity [%]: 56

Source room volumes: 72 m³

Receiver room volumes: 70 m³

frequency [Hz]	R [dB]
50	-.-
63	-.-
80	-.-
100	22,1
125	23,9
160	26,6
200	27,0
250	30,4
315	36,1
400	39,2
500	40,8
630	41,5
800	43,6
1000	46,2
1250	48,2
1600	50,0
2000	52,0
2500	50,7
3150	45,2
4000	48,2
5000	50,9



Airborne sound

insulation $R_{WY}(C, C_{tr}) = 42 (-1; -6)$ dB

C50_3150: - C50_5000: - C100_5000: -1 dB

Ctr50_3150: - Ctr50_5000: - Ctr100_5000: -6 dB

Sauerland-Service-Centre

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Gotha, 26.06.2000