Sound Insulation Index ISO 140-3:1995

Laboratory measurement of airborne sound insulation
Sponsor: Sauerland Spanplatte

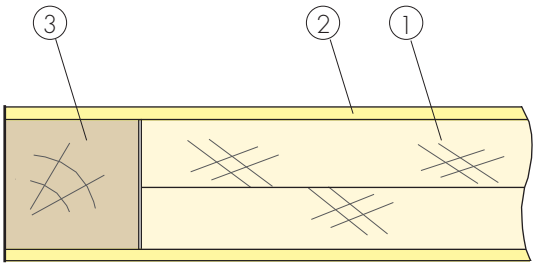
Internal Test

Sauerland Spanplatte

Construction of the test specimen:

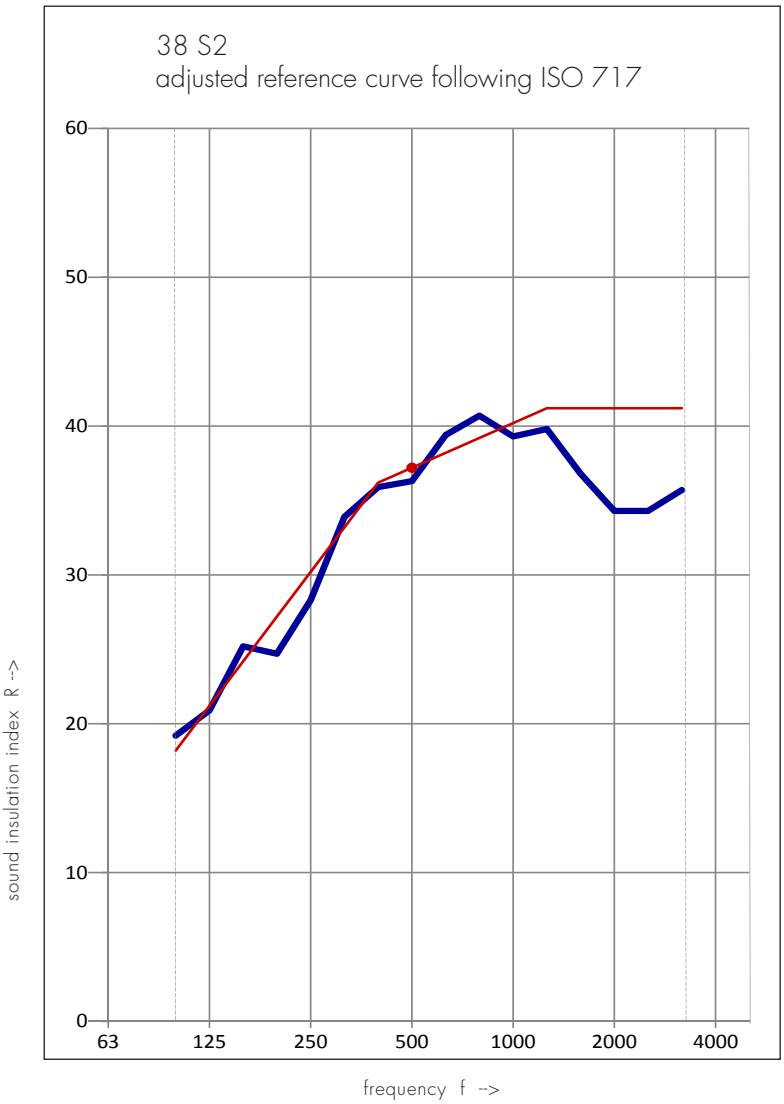
Door leaf 915 x 2000 x 45 mm

1 : Sandwich board 38 S2
(2 x 19 VL nailed)
2 : HDF 3 mm
3 : Softwood 40 mm



Test opening: 2,00 m²
Weight of test specimen: 24,9 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	19,2
125	20,9
160	25,2
200	24,7
250	28,3
315	33.9
400	35,9
500	36,3
630	39,4
800	40,7
1000	39,3
1250	39,8
1600	36,8
2000	34,3
2500	34,3
3150	35,7
4000	-,-
5000	-,-



Airborne sound
insulation R_W (C, C_{tr}) = 37,2 (-2.2; -4.6) dB

C50_3150: – C50_5000: – C100_5000: -1,6
Ctr50_3150: – Ctr50_5000: – Ctr100_5000: -4,7

Sauerland-Service-Centre

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Gotha, 30.03.2010