

# Sound Insulation Index ISO 140-3:1995

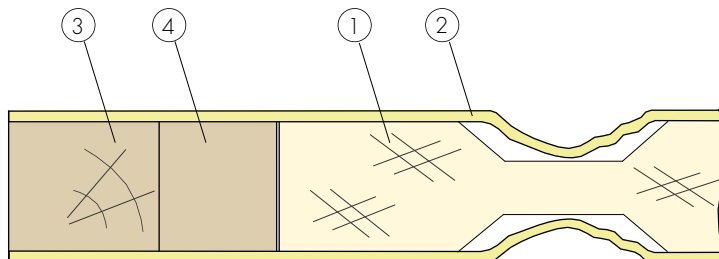
Laboratory measurement of airborne sound insulation  
 Sponsor: Sauerland Spanplatte



## Internal Test

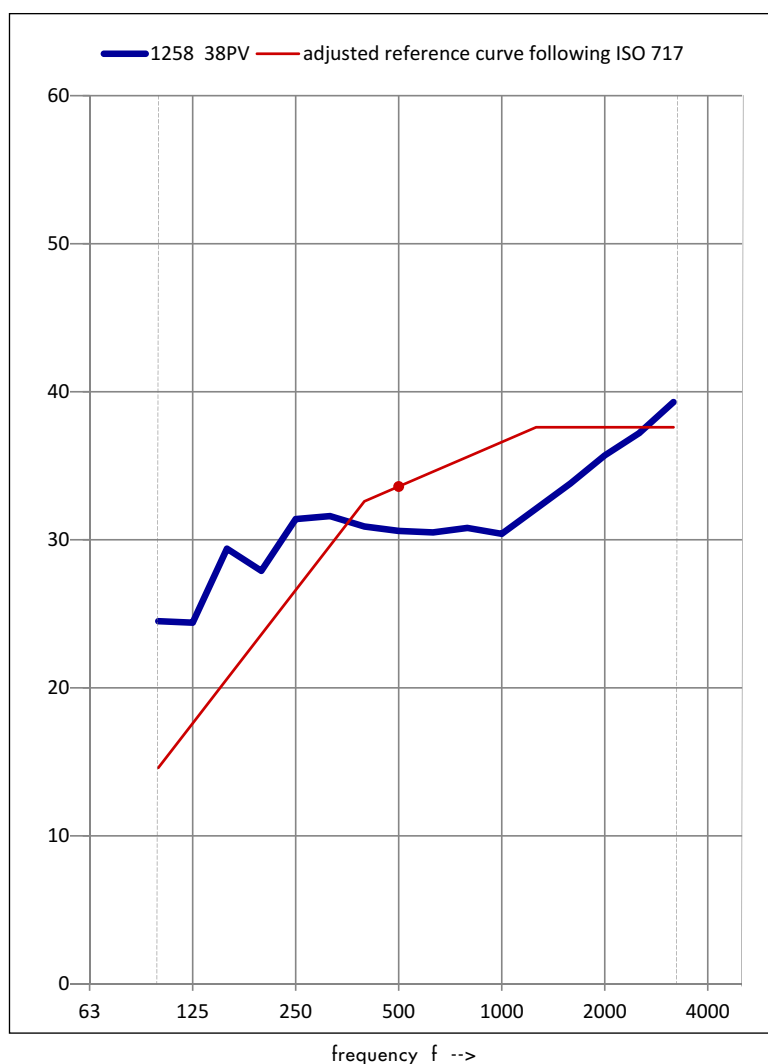
Construction of the test specimen:

- Door leaf 910 x 2010 x 44 mm
- 1 : Solid particle board 38 PV
- 2 : MASONITE 2P
- 3 : Hardwood 40 mm
- 4 : Hardwood 25 mm



Test opening: 2,00 m<sup>2</sup>  
 Weight of test specimen: 27,1 kg/m<sup>2</sup>  
 Temperature [°C]: 18  
 Humidity [%]: 56  
 Source room volumes: 72 m<sup>3</sup>  
 Receiver room volumes: 70 m<sup>3</sup>

frequency [Hz]	R [dB]
50	-.-
63	-.-
80	-.-
100	24,5
125	24,4
160	29,4
200	27,9
250	31,4
315	31,6
400	30,9
500	30,6
630	30,5
800	30,8
1000	30,4
1250	32,1
1600	33,8
2000	35,7
2500	37,2
3150	39,3
4000	-.-
5000	-.-



Airborne sound insulation  $R_{WV}(C, C_{tr}) = 33 (0; -2) \text{ dB}$   
 C50\_3150: -      C50\_5000: -      C100\_5000: 0 dB  
 Ctr50\_3150: -      Ctr50\_5000: -      Ctr100\_5000: -2 dB

### Sauerland-Service-Centre

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