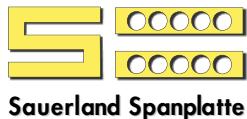


# Sound Insulation Index ISO 140-3:1995

Laboratory measurement of airborne sound insulation  
Sponsor: Sauerland Spanplatte



## Internal Test

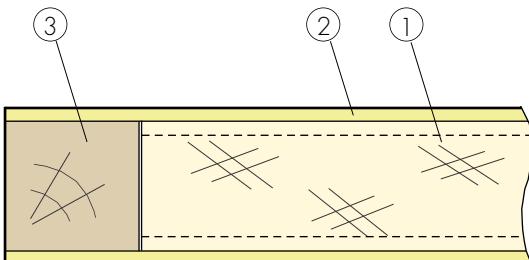
Construction of the test specimen:

Door leaf 1000 x 2000 x 39,5 mm, sealed

1 : Tubular particle board 33 RT8

2 : Hardboard 3 mm

3 : Softwood 40 mm



Test opening: 2,00 m<sup>2</sup>

Weight of test specimen: 13,3 kg/m<sup>2</sup>

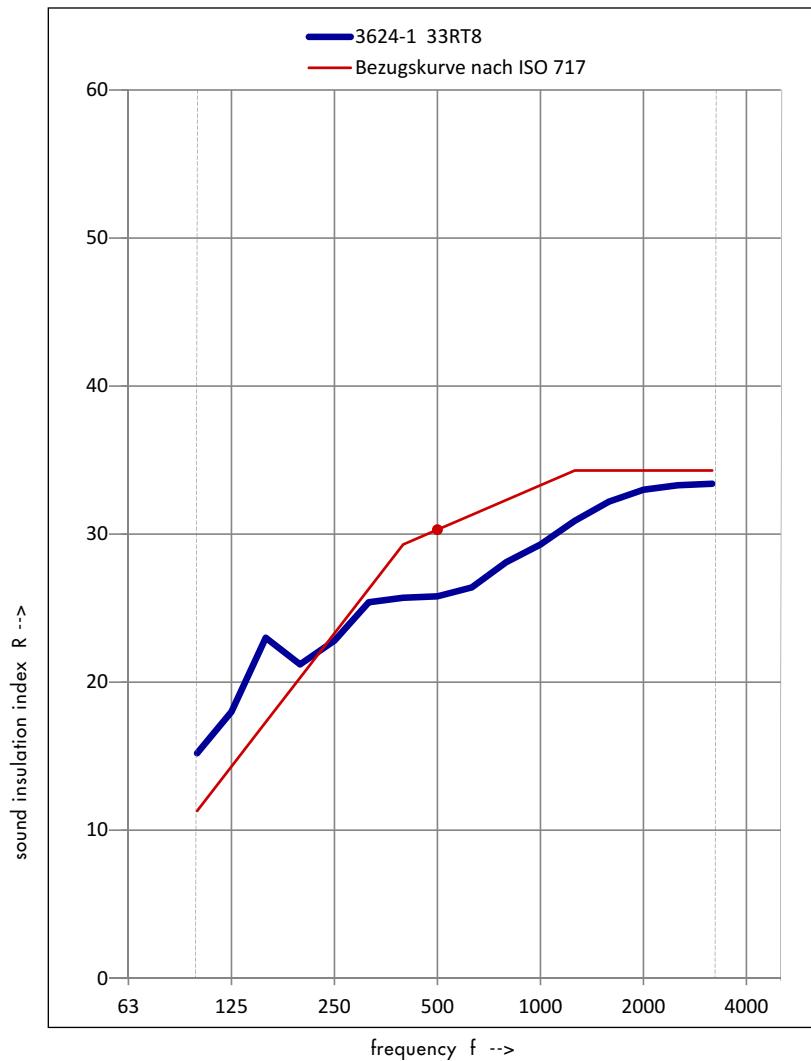
Temperature [°C]: 18

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	15.2
125	18.0
160	23.0
200	21.2
250	22.8
315	25.4
400	25.7
500	25.8
630	26.4
800	28.1
1000	29.3
1250	30.9
1600	32.2
2000	33.0
2500	33.3
3150	33.4
4000	32.3
5000	29.4



### Airborne sound

insulation  $R_{VW}$  ( $C, C_{tr}$ ) = 30,3 (-1,3; -3,6) dB

$C_{50\_3150} = -$     $C_{50\_5000} = -$     $C_{100\_5000} = -1,0$   
 $C_{tr50\_3150} = -$     $C_{tr50\_5000} = -$     $C_{tr100\_5000} = -3,6$

## Sauerland-Service-Centre

Order number: 3624-1/2009  
Gotha, 09.10.2009