

SOUND REDUCTION

Sound reduction index according to ISO 10140-2

Laboratory measurements of airborne sound insulation of building elements

Rating according to ISO 717-1

$$R_w(C;C_{tr}) = 26 (0 ; -2) \text{ dB}$$

Evaluation based on laboratory measurement results

obtained in one-third-octave bands by an engineering method.

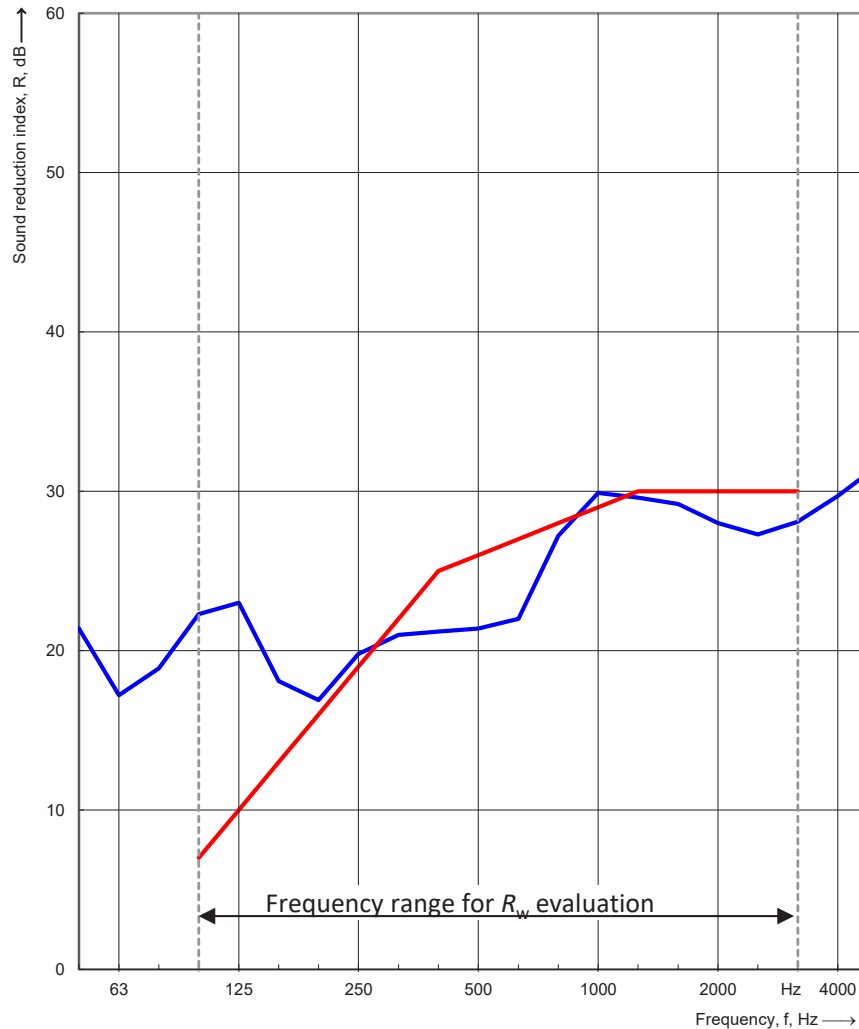
$$C_{50-3150} = 0 \text{ dB} \quad C_{50-5000} = 0 \text{ dB} \quad C_{100-5000} = 0 \text{ dB}$$

$$C_{tr,50-3150} = -2 \text{ dB} \quad C_{tr,50-5000} = -2 \text{ dB} \quad C_{tr,100-5000} = -2 \text{ dB}$$

$$\text{Sum of unfavourable deviations: } 23 \text{ dB}$$

Frequency f [Hz]	R 1/3 octave [dB]
50	≥ 21,4
63	≥ 17,2
80	18,9
100	22,3
125	23,0
160	18,1
200	16,9
250	19,8
315	21,0
400	21,2
500	21,4
630	22,0
800	27,2
1000	29,9
1250	29,6
1600	29,2
2000	28,0
2500	27,3
3150	28,1
4000	29,7
5000	31,6

— Measured sound reduction index, R
— Shifted curve of reference values (ISO 717-1)



≥ indicates R-value within 15 dB from R'max

