

Table of sound levels L (loudness of noise) with corresponding sound pressure and sound intensity

Sound sources (noise) Examples with distance	Sound pressure Level L_p dB SPL	Sound pressure p $N/m^2 = Pa$ Sound field quantity	Sound intensity I W/m^2 Sound energy quantity
Jet aircraft, 50 m away	140	200	100
Threshold of pain	130	63.2	10
Threshold of discomfort	120	20	1
Chainsaw, 1 m distance	110	6.3	0.1
Disco, 1 m from speaker	100	2	0.01
Diesel truck, 10 m away	90	0.63	0.001
Kerbside of busy road, 5 m	80	0.2	0.0001
Vacuum cleaner, distance 1 m	70	0.063	0.00001
Conversational speech, 1 m	60	0.02	0.000001
Average home	50	0.0063	0.0000001
Quiet library	40	0.002	0.00000001
Quiet bedroom at night	30	0.00063	0.000000001
Background in TV studio	20	0.0002	0.0000000001
Rustling leaves in the distance	10	0.000063	0.00000000001
Hearing threshold	0	0.00002	0.000000000001

The reference sound pressure level in dB is the threshold of hearing at a sound pressure of $p_0 = 20 \mu Pa = 20 \cdot 10^{-6} Pa = 2 \cdot 10^{-5} Pa = 0.00002 N/m^2$.
The reference sound intensity according $I_0 = 10^{-12} W/m^2$.