



Useful Acoustic Reference Data

Calculated A Scale Reading

When it is desired to convert a set of octave band Sound Pressure Levels into an equivalent A scale reading, apply the following corrections to the octave band SPL values; then add the corrected quantities by 'dB addition'. The resulting value is the calculated A scale reading for that noise spectrum.

Octave Frequency Band (Hz)	Correction to Obtain A Scale Value (dB)
31	-39
63	-26
125	-16
250	-9
500	-3
1000	0
2000	+1
4000	+1
8000	-1

For example:

Octave Frequency Band (Hz)	SPL in Octave Band (dB)	Correction to Obtain A Scale Value (dB)
31	87	-39
63	92	-26
125	99	-16
250	105	-9
500	97	-3
1000	91	0
2000	88	+1
4000	80	+1
8000	78	-1

