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HEARING PROTECTION ATTENUATION

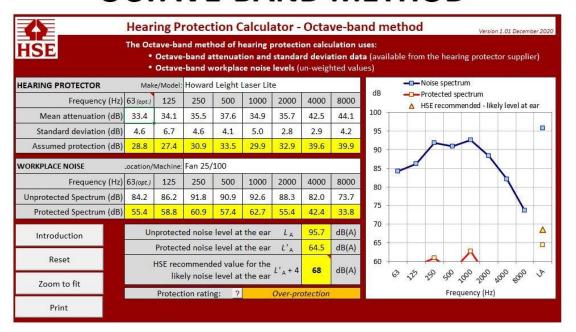
The use of hearing protection devices is one of the key components of a successful hearing conservation programme. Therefore, it is essential to correctly estimate potential noise attenuation provided by a hearing protection device to fulfil your duties under the Control of Noise at Work Regulations 2005.

In the UK, there are 3 prescribed methods to do that:

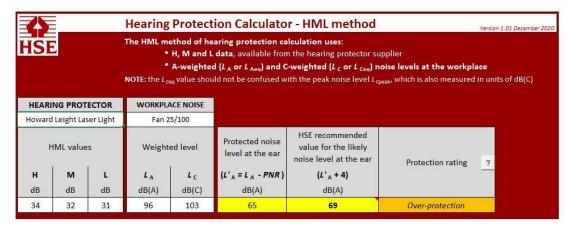
- Octave-band Requires detailed data on the frequency content of the noise, and uses information on the attenuation of the protector at specified frequencies. This is the most accurate method to estimate attenuation but requires more data, such as the octave-band spectrum.
- HML Three values H, M and L are used with two simple measurements of the sound pressure level. This is a simpler method to estimate evaluation that requires A-weighted and C-weighted average sound pressure levels.
- SNR The simplest method of assessment that only requires a C-weighted average sound pressure level.

Approved Code of Practice L108 describes in great detail the calculations involved in these methods; however, the UK HSE has created an online calculator that is much easier and quicker to use. Source: ACOP L108 p.103.

OCTAVE-BAND METHOD



H-M-L METHOD



SNR METHOD

