

NOISE REDUCTION RATING (NRR) SPECIFICATIONS

EarzON® CUSTOM HEARING PROTECTORS



EarzON® custom hearing protector - acrylic

(solid earpieces and earpieces with toggle filter in closed position)

Attenuation Data (re: ANSI S3.19-1974)											
Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean Attenuation in dB	33.2	34.2	33.5	31.9	34.2	41.0	43.0	44.9	41.1	26	AL
Standard Deviation in dB	4.8	4.3	3.9	3.7	3.5	3.9	3.8	4.6	4.1		

EarzON® custom hearing protector - silicone

(solid earpieces and earpieces with toggle filter in closed position)

Attenuation Data (re: ANSI S3.19-1974)											
Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean Attenuation in dB	31.7	30.8	32.4	31.2	37.0	42.5	44.0	45.0	43.6	26	AL
Standard Deviation in dB	3.9	4.1	3.8	3.3	4.2	3.8	4.2	3.8	3.6		

EarzON® Filtered-HiFi custom hearing protector

Attenuation Data (re: ANSI S3.19 - 1974)											
Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean Attenuation in dB	30.0	26.8	28.5	27.7	25.3	25.9	22.7	40.1	37.6	19	BL
Standard Deviation in dB	5.2	3.6	4.2	2.8	2.6	2.0	1.8	3.7	3.3		

EarzON® Filtered-Lite (including earpieces with toggle filter in open position)

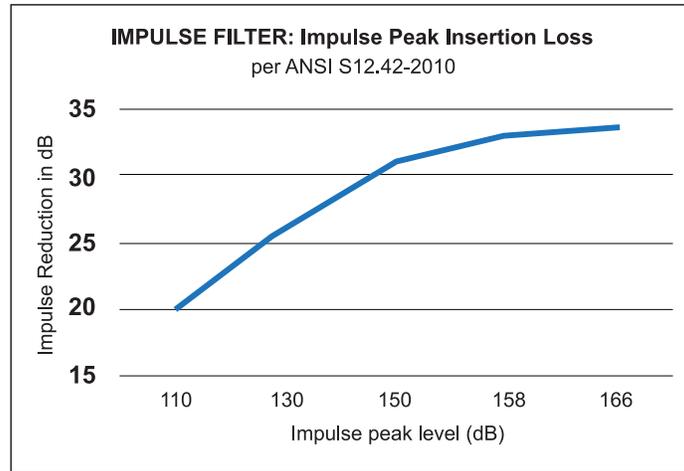
Attenuation Data (ANSI S3.19-1974)											
Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean Attenuation in dB	19.4	16.1	16.1	15.8	19.9	25.9	23.2	25.4	22.2	11	C
Standard Deviation in dB	3.5	2.8	3.1	2.7	2.9	4.4	4.5	3.8	4.8		

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EarzON® Filtered-Impulse custom hearing protector*

Attenuation Data (ANSI S3.19-1974)											
Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA CLASS
Mean Attenuation in dB	12.4	13.9	18.8	22.1	27.3	28.3	29.4	37.7	32.8	13	B
Standard Deviation in dB	4.0	3.6	3.9	4.6	4.0	3.6	5.1	4.6	4.6		

* Example impulse peak lab data for Impulse Filter



The level of noise entering a person’s ear, when the hearing protector is well-fitted and worn as directed, is approximated by the difference between the environmental noise level and the NRR (A-weighted environmental noise measurements must be corrected by 7 dB). For instructions on how to apply the CSA Class in Canada, refer to *CSA Z94.2-14: Hearing Protection Devices – Performance, Selection, Care, and Use*.

A more precise estimate of field performance can be determined by Individual Fit Testing. This personalized test is performed under typical wear conditions and results in a “Personal Attenuation Rating” (PAR) for each worker. Contact CavCom to learn more about applying NRR data and options for Individual Fit Testing

Cautions

- Although hearing protectors can be effective against the harmful effects of impulsive noise, the Noise Reduction Rating (NRR) is based on the attenuation of *continuous* noise and may not be an accurate indicator of the protection attainable against *impulsive* noise such as gunfire. See IPIL data for estimates of protection against impulse noise.
- Improper fit of this device will reduce its effectiveness in attenuating noise. Consult CavCom’s product instructions for guidance on proper fit, care and use.