

V5 Self-Fit™ Hearing Protector



Self-Fit™ Hearing Protectors custom-fit to your unique ear-print creating a Noise Blocking Seal that drastically cuts out hazardous noise. Unlike all other custom-fitted technologies, Self-Fit™ Hearing Protectors come pre-docked on the SonoFit™ System that allows workers to self-fit in a matter of five minutes. Self-Fit Hearing Protectors consist of a durable hypoallergenic silicone earpiece and polymer faceplate for one-year plus reusability. Its unique design allows for individual testing for PAR (Personal Attenuation Rating) and Noise Blocking Seal.

SPECIFICATIONS

Self-Fit Earpiece:

- Expandable bladder: Medical grade (Class VI) silicone (LIM)
- Underbody: Glass reinforced Nylon
- Faceplate: Nylon
- Injection silicone: medical grade (Class VI) silicone (RTV)
- Cord: Extruded Polyurethane
- Fabric mesh sound filters in a stainless metal tube (selectable attenuation levels) as used in the hearing aid industry

SonoFit™ Fitting System

Single-use fitting system designed to automatically and safely custom shape earpieces to users ears. Materials composed of multiple plastics most of which are recyclable and/or repurposeable. Contact your Sales Partner to know more about the 2R Program to Recycle and Repurpose.

Shelf Life

To obtain the best performance, use this product within 12 months from date of purchase.

Storage

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 50% relative humidity in the original carton.

NRR Testing



NRR testing is done in a certified sound chamber and typically does not make use of a probed plug. The data is based on subjective responses from 10 or 20 test subjects. Statistical analysis is performed on these results to obtain standard deviation mathematical calculations. The final result is then computed to predict the minimum (95% confidence interval) to account for ear fit and shape variations.

PAR Testing

Average
PAR
29dB

PAR testing utilizes an actual earplug with a probed dual-microphone measuring element, a spectrum analyzer and a calibrated sound source to determine effective noise reduction for each ear. This equates the actual noise reduction levels between the outside and inside of the hearing protector when inserted in the ear canal. PAR stands for Personal Attenuation Rating that is based on real data for each individual tested and accounts for all ear fit and shape.

SPECIFICATION GUIDE

Open Specification

Hearing protector must be of a custom-fitted type where a silicone hypoallergenic earpiece membrane is filled with medical grade silicone to form the exact shape of the ear canal by way of a single use auto-fill dispenser. No filler must come in contact with ear and earpiece membrane must be completely encapsulated. Hearing protector faceplate must be Hi-Viz orange and provide filtered (specify attenuation NRR, SNR or SLC 80 as per charts below) or full-block attenuation.

Closed Specification

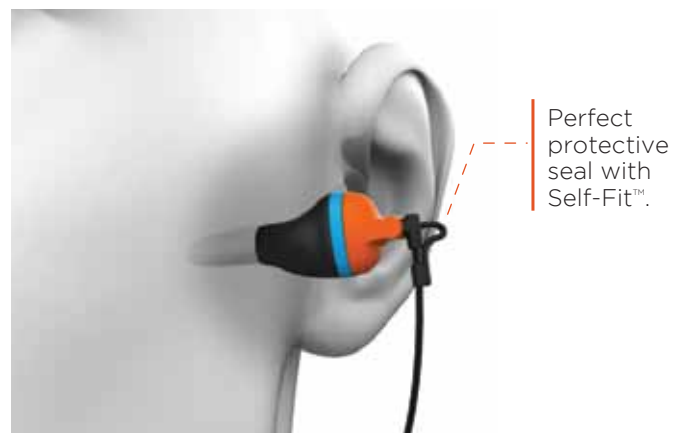
Hearing protector must be Self-Fit™ HPD-V5 custom-fitted type that is shaped to unique ear-print by way of the SonoFit™ fitting system. Required faceplate configuration for filtered (specify color by referring to attenuation NRR or SNR as per charts below) or full-block attenuation.

Certifications and Standards

- North American (ANSI S12.6 - 1997(B), ANSI S3.19-1974)
- CE Europe Test (EN 352-2: 1993)
- Australia (AS/NZ S1270:2002)
- Reach
- Rohs
- Green dot
- Recycle

Typical Applications

Manufacturing, Mining, Oil and Gas, Petrochemical, Food Processing, Construction, Military, or any High Noise Industrial or Entertainment Environment.



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ATTENUATION DATA: ANSI S12.6 - 1997 (B) / ANSI S3.19-1974*

Test Frequencies (Hz)		125	250	500	1000	2000	4000	8000	NRR
Full Block	Mean attenuation (dB)	30.0	25.1	26.9	25.4	35.4	37.4	41.0	22
	Standard Deviation (dB)	4.2	3.1	3.1	2.8	3.8	4.3	5.0	
Yellow Filter	Mean attenuation (dB)	21.7	19.6	21.1	22.0	31.2	33.9	35.5	18
	Standard Deviation (dB)	4.5	3.8	2.9	2.4	3.6	3.9	4.4	
Red Filter	Mean attenuation (dB)	15.0	14.9	16.5	18.2	28.1	31.6	31.9	14
	Standard Deviation (dB)	4.1	3.7	2.9	2.0	4.0	3.5	4.5	

V5/12/2016/TECH SPECS

ATTENUATION DATA: EN 352-2: 2002*

Test Frequencies (Hz)		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Full Block	Mf (dB)	29.5	30.2	27.1	26.1	25.7	36.3	34.8	43.1	27	29	23	23
	sf (dB)	5.1	6.3	4.4	5.2	3.5	5.0	3.2	4.4				
Yellow Filter	APVf (dB)	24.3	23.9	22.6	20.9	22.2	31.3	31.5	38.7	24	25	20	17
	Mf (dB)	15.4	18.0	19.5	19.6	21.7	29.0	30.7	34.8				
	sf (dB)	5.0	4.1	3.2	2.6	1.6	4.0	3.5	6.3				
Red Filter	APVf (dB)	10.4	13.9	16.3	17.0	20.1	25.0	27.2	28.5	21	23	17	14
	Mf (dB)	10.7	12.8	15.5	15.7	19.3	27.5	29.6	34.2				
	sf (dB)	3.7	2.3	1.8	2.3	2.2	5.1	4.4	5.5				
	APVf (dB)	7.0	10.5	13.8	13.4	17.1	22.4	25.2	28.7				

ATTENUATION DATA: AS/NZS 1270:2002

Test Frequencies (Hz)		125	250	500	1000	2000	4000	8000	SLC(80)	Class
Full Block	Mean (dB)	28.8	24.6	26.5	26.0	36.1	36.9	41.6	24	4
	SD (dB)	8.8	7.7	8.0	5.9	5.8	4.4	6.8		
Yellow Filter	Mean - SD (dB)	20.0	16.9	18.5	20.2	30.3	32.5	34.8	18	3
	Mean (dB)	17.6	16.5	18.1	18.7	28.7	30.0	33.7		
	SD (dB)	5.4	3.5	4.8	5.1	5.4	5.3	5.5		
Red Filter	Mean - SD (dB)	12.3	13.0	13.3	13.6	23.4	24.8	28.3	15	2
	Mean (dB)	11.2	10.7	12.0	15.8	26.0	29.3	31.0		
	SD (dB)	5.3	4.8	4.3	3.7	4.9	3.4	7.6		
	Mean - SD (dB)	5.9	5.8	7.7	12.1	21.0	25.9	23.4		

Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that EERS believes are reliable. However, many factors beyond EERS's control can affect the use and performance of a EERS product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the EERS product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

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