

# Laboratory Test Report

Date: 23-Nov-09

Test Report No. PA-SA102

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## ANSI S12.42 Testing – Model (30063, 30067, 30069, 30070, 30071, 30072) Earmuffs

**Performed For:** Power Aisle Inc.  
193 West Hills Rd.  
Huntington Station, New York 11746  
Voice: 631-673-5975 Fax: 631-673-5976

**Prepared By:** Stuart McGregor *Stuart D McGregor*

**1.0 Test Articles** – Ten Model (30063, 30067, 30069, 30070, 30071, 30072) Hearing Protectors.

**2.0 Applicable Specifications** – ANSI S12.42, (ANSI S3.19) Physical Method.

**3.0 Test Results** – The results of the hearing protector acoustical tests and the Noise Reduction Rating (NRR) calculations are presented in Table 3.1. In accordance with 40CFR PART 211 – Product Noise Labeling, “Spectral uncertainty. Possible variation in exposure to the noise spectra in the workplace. (To avoid the under protection that would result from these variations relative to the assumed “Pink Noise” used to determine the NRR, an extra three decibel reduction is included when computing the NRR.)” The NRR rating in accordance with 40CFR211 is shown in Table 3.1.

**Table 3.1: Model (30063, 30067, 30069, 30070, 30071, 30072) Earmuff NRR Calculation Worksheet**

1/3 octave centerband frequency	Measured 1/3-octave Data			Exterior to Earmuff		A-weighted Sound Levels in Earmuff
	Sound levels exterior to Earmuff	Average Earmuff Attenuation	Standard Deviation of Attenuation	C-weighted Sound Levels	A-weighted Sound Levels	
125	81.5	1.8	2.9	81.3	65.4	66.5
160	81.3	5.2	3.9	81.2	67.9	66.5
200	78.8	8.6	4.8	78.8	67.9	64.1
250	79.6	12.0	4.7	79.6	71.0	63.7
315	81.2	13.2	3.9	81.2	74.6	65.3
400	82.0	12.4	2.8	82.0	77.2	67.5
500	80.2	12.5	2.2	80.2	77.0	66.6
630	81.3	14.9	3.1	81.3	79.4	67.6
800	83.7	25.9	8.8	83.7	82.9	65.8
1000	85.5	23.6	4.8	85.5	85.5	66.7
1250	86.3	30.7	6.6	86.3	86.9	62.8
1600	90.1	41.6	5.6	90.0	91.1	55.1
2000	95.2	42.3	4.6	95.0	96.4	58.7
2500	95.9	38.9	4.0	95.6	97.2	62.3
3150	89.7	37.7	3.2	89.2	90.9	56.5
4000	82.5	35.8	4.3	81.7	83.5	52.0
5000	75.5	34.5	4.4	74.2	76.0	45.9
6300	65.1	38.3	3.5	63.1	65.0	30.2
8000	62.9	39.8	1.6	59.9	61.8	23.5
<b>Overall C Weighted Level =</b>				100.3		
<b>Overall A Weighted Level =</b>				76.7		
<b>Ear Muff NRR Value =</b>				24		
<b>OSHA Adjusted NRR =</b>				21		

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**Table 3.2: (30063, 30067, 30069, 30070, 30071, 30072) Ear Muff Mean Attenuation Levels**

Frequency	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation	3	11	13	26	40	38	37	35	38
Standard Deviation	2.9	4.7	2.2	4.8	4.6	3.2	4.3	3.5	1.6

**4.0 Test Result Limitations** – This test report certifies that ONLY the ten (30063, 30067, 30069, 30070, 30071, 30072) ear muffs tested have the reported OSHA adjusted NRR ratings as shown in Table 3.1, and the mean attenuation levels listed in Table 3.2. EDI does not perform quality control on the ear muff manufacturers' materials or processes used to manufacture the ear muff, and therefore, DOES NOT certify that ALL (30063, 30067, 30069, 30070, 30071, 30072) ear muffs will have the same OSHA adjusted NRR or mean attenuation levels.

