

Laboratory Test Report

Date: 22-Feb-11

Test Report No. Guide Gear

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ANSI S12.42 Testing – Model Guide Gear 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 Gear Guide 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.)

Table 3.1: Model Guide Gear 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	90.7	1.0	3.8	90.5	74.6	77.4
160	87.9	1.0	4.8	87.8	74.5	80.6
200	86.8	2.7	4.5	86.8	75.9	77.7
250	86.3	6.9	6.2	86.3	77.7	77.0
315	86.4	9.4	6.0	86.4	79.8	76.4
400	87.4	12.9	7.9	87.4	82.6	77.6
500	89.8	17.2	4.6	89.8	86.6	74.0
630	95.3	20.1	6.0	95.3	93.4	79.3
800	94.4	21.5	6.2	94.4	93.6	78.2
1000	96.5	25.0	7.0	96.5	96.5	78.5
1250	94.9	28.5	6.0	94.9	95.5	73.0
1600	99.5	34.0	5.8	99.4	100.5	72.3
2000	104.0	35.7	5.2	103.8	105.2	74.6
2500	106.8	34.2	7.0	106.5	108.1	80.9
3150	100.1	29.9	3.1	99.6	101.3	74.5
4000	94.2	29.5	4.5	93.4	95.2	70.2
5000	88.2	27.4	7.4	86.9	88.7	68.7
6300	79.5	32.4	7.4	77.5	79.4	54.4
8000	79.5	39.5	7.7	76.5	78.4	46.5
Overall C Weighted Level =				110.3		
Overall A Weighted Level =				89.4		
Ear Muff NRR Value =				21		
OSHA Adjusted NRR =				18		

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Table 3.2: Guide Gear Ear Muff Mean Attenuation Levels

Frequency	125	250	500	1000	2000	3150	4000	6300	8000
Mean Attenuation	1	5	18	24	35	33	30	28	35
Standard	3.8	6.2	4.6	7.0	5.2	3.1	4.5	7.4	7.7

- 4.0 Test Result Limitations** – This test report certifies that ONLY the ten Guide Gear ear muffs tested have the reported 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 Guide Gear ear muffs will have the same NRR or mean attenuation levels.

