

Laboratory Test Report

Date: 28-Jan-05

Test Report No. T-Power Aisle-30031

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ANSI S3.19-1974 Testing – Model 30031 Earmuffs

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

- 1.0 Test Articles** – Ten Model 30031 Earmuff Hearing Protectors.
- 2.0 Applicable Specifications** – ANSI S3.19-1974 (R1990), Real Ear 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: 30031 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	91.0	8.0	4.5	90.8	74.9	71.4
160	90.0	12.0	6.5	89.9	76.6	71.1
200	89.0	15.7	8.1	89.0	78.1	70.4
250	89.9	19.4	9.1	89.9	81.3	71.0
315	85.8	21.0	10.5	85.8	79.2	68.7
400	88.1	25.4	11.5	88.1	83.3	69.3
500	89.0	28.5	13.0	89.0	85.8	70.3
630	93.2	30.7	12.5	93.2	91.3	73.0
800	94.6	33.0	12.4	94.6	93.8	73.1
1000	95.9	35.1	10.7	95.9	95.9	71.5
1250	96.1	36.7	8.7	96.1	96.7	68.7
1600	100.8	42.8	6.3	100.7	101.8	65.2
2000	105.0	42.0	9.7	104.8	106.2	74.0
2500	105.7	39.9	10.4	105.4	107.0	77.6
3150	103.8	37.5	4.0	103.3	105.0	71.5
4000	97.9	37.4	7.0	97.1	98.9	68.5
5000	93.4	38.7	5.9	92.1	93.9	61.1
6300	79.1	37.4	5.6	77.1	79.0	47.2
8000	77.0	39.7	6.2	74.0	75.9	42.4

Overall C Weighted Level = 110.9
Overall A Weighted Level = 83.9
Ear Muff NRR Value = 27
OSHA Adjusted NRR = 24