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56 LESLIE HOUGH WAY · SALFORD · GREATER MANCHESTER · M6 8AJ · UNITED KINGDOM
Email: testing@inspec-international.com Website: www.inspec-international.com
Tel: +44 (0) 16 17 37 06 99 Fax: +44 (0) 16 17 36 01 01


EN 352-2 : 1993

Safety requirements and testing

Part 2 : ear-plugs

TEST REPORT NO: 02.12.17
CLIENT: INSPEC Certification Services
Upper Wingbury Courtyard
Wingrave
Aylesbury
Buckinghamshire
HP22 4LW
Dolphin I
MANUFACTURER: Steelpro Safety Equipment Company
MODEL: Steelpro foam ear plug corded
DATE SAMPLES RECEIVED: 28 November 2002
DATE ORDER RECEIVED: 22 November 2002
DATE OF TESTS: 4 December 2002

Checked:


T. D. SEDDON

Approved:


A. NELSON

Issued: 6 December 2002

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The samples tested and the digital photograph file will be destroyed four weeks from the date of this report unless otherwise instructed.

INTRODUCTION:

BS EN 24869-1 : ISO 4869-1 specifies a subjective method for measuring the attenuation of hearing protectors at the threshold of hearing. This method, including details of the test signals, site, equipment, subjects and procedure, was applied to the samples tested and the results are presented, as required by the Standard, on the following pages of this Report.

For complete details of the method, please refer to BS EN 24869-1 : ISO 4869-1.

TEST SIGNALS, SITE AND EQUIPMENT:

The facilities used for this test are located within the School of Acoustics and Electronic Engineering at the University of Salford.

TEST SUBJECTS:

The 16 test subjects comprised both males and females and covered a wide age range. All subjects were audiometrically screened in accordance with Clause 4.4.1 of BS EN 24869-1 prior to the test. They also satisfied the requirements of Clauses 4.4.2 and 4.4.3.

FITTING:

Manufacturer's instructions were provided and were followed during the fitting of the hearing protectors. Guidance was also available from the test operator.

TEST PROCEDURE:

50 pairs were supplied by the Laboratory for testing. Each subject randomly selected one pair for practice fitting and another for testing. Each test subject's protected threshold was assessed once.

The procedures specified in Clause 4.5 were followed.

OBSERVATIONS :

None.

RESULTS:

See the attached sheet for the attenuation data for each individual subject.

The results here presented relate only to the items tested and described in this report.

Model

Attenuation results (values in dB)

See below

Test Reference No

HP/02/05/01

Subject	Sample	Frequency (Hz)							
		63	125	250	500	1000	2000	4000	8000
R.H	01	28	30	29	28	30	33	43	42
E.S	02	35	45	42	43	40	40	48	48
A.N	03	34	40	44	43	44	38	42	36
C.N	04	38	38	34	39	42	40	44	46
C.L	05	36	38	39	42	36	35	52	52
D.M	06	40	40	38	40	36	36	51	45
B.F	07	32	32	38	36	36	30	51	46
L.C	08	34	36	32	34	36	40	46	46
W.M	09	34	36	34	33	34	40	49	48
A.S	10	37	36	35	38	36	42	49	56
F.W	11	28	36	34	44	39	39	52	47
P.J.H	12	35	46	44	48	46	42	44	48
P.D	13	38	46	52	50	40	34	56	44
R.C	14	32	41	44	46	40	38	60	46
P.H	15	36	38	40	41	34	34	46	40
J.O	17	34	31	28	28	34	36	42	44
Mean Attenuation		34.4	38.1	37.9	39.6	37.7	37.3	48.4	45.9
Standard Deviation		3.3	4.9	6.3	6.5	4.2	3.5	5.1	4.5
Assumed Protection SSP2		31.1	33.2	31.6	33.1	33.5	33.8	43.3	41.4

Assumed Protection Value rounded to one decimal place.