



GENERAL DATA

Division : Head Protection
Family : Hearing Protection
Range : Earmuffs
Line : Noise Blocking Earmuffs
Business Countries
 EMEA
 United Kingdom
 Middle East
Activity Domains :
 Industry

Product Use :
 Noise Blocking Earmuff foldable- Shooting Sport range

PRODUCT ADVANTAGES

Feature :

AIR FLOW CONTROL TECHNOLOGY

Howard Lieght's patented Air Flow Control™ technology delivers optimal attenuation across all frequencies, without increasing earcup size or weight. A patented baseplate chamber and high-tech non-woven layer manage the flow of air inside the earmuff to control how sound reaches the ear. The result is better, more consistent overall attenuation for virtually all industrial noise environments.

STEEL WIRE CONSTRUCTION

Robust steel headband withstands demanding use, especially in tough environments.

FOLDING STYLE

For compact storage. Belt case available separately.

SNAP-IN EAR CUSHIONS

Snap-in ear cushions make replacement quick and easy.

PADDED FOAM HEADBAND

Delivers long-wearing comfort with minimal pressure on the head.

CLAMSHELL BLISTER PACK

Ideal for wholesaler, retailer and large-scale retail outlet.

Benefit :

When you're in a tough industrial and shooting environment and need to block noise, Howard Leight's Leightning series' steel wire construction provides high performance and robust durability. Leightning stands up to daily use and abuse without compromising comfort. Bilsom has optimized the Leightning series to deliver the highest level of comfort available, featuring an exclusive padded foam headband and super soft ear cushions that eliminate that "squeezing pressure" on the head.

TECHNICAL DESCRIPTION

SNR (dB) : 32

H (dB) : 32

M (dB) : 30

L (dB) : 24

Attenuation Data :

Frequency (Hz) Frequenz (Hz) Fréquence (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB) Mittlere Dämmung (dB) Atténuation moyenne (dB)	19.6	21.1	25.8	30.5	35.7	33.6	37.8	37.3
Standard Deviation (dB) Standardabweichung (dB) Déviation standard (dB)	4.3	3.6	2.1	2.6	3.0	3.1	2.7	3.6
Assumed Protection (dB) Angenommener (dB) Protection supposé (dB)	15.3	17.5	23.7	27.9	32.7	30.5	35.1	33.7

Earmuff Construction :

Metal

Other Material :

Steel Wire, PUR-E, PVC, Textile, PC/PBT, ABS

Dielectric : No

Color :

Black Headband and Dark Grey Cups

Batteries Needed :

None

Weight (grs) :

236

Design Patents :

Air Flow Control™

Headband Style :

Folding

Sound Amplification : No

AM/FM Radio : No

Automatic Shut-Off Function : No

Audio Input Jack : No

Hi-Visibility : No

ADDITIONAL INFORMATION

Accessories :

Hygiene Kit - Packed in a plastic bag, including two ear cushions and two foam pads. Ref. # 1011999 for L2, L2F, L2N

Belt Case - For carrying purposes. Ref. # 1000251

Beltclip - For carrying purpose. Old Ref. # 1000252 New Ref. # 1016730

Cool II Pads - Sweat absorbing pads. Ref. # 1000365 5-pair, Ref. # 1000364 100-pair

Optisorb - cotton sleeve slides over earcup. Ref. # 3302101

Polar Hood - Ref. # 1016870 Lg/XLg; Ref. # 1016871 Sm/Med

Life Cycle :

Cushions should be replaced periodically to retain maximum attenuation. Use the following as a guideline for replacement of ear cushions and insert foam. General use and wear - Ear cushions and foam inserts should be replaced at least every 6 months. Heavy use or wear in humid/extreme climates - Ear cushions and foam inserts should be replaced at least every 3 months. Cracking or leakage is visible - replace ear cushions and foam inserts immediately.

Storage Information :

When not in use, the earmuffs should be stored in a clean dry container or locker. Do not use solvents or petroleum-based products. Do not immerse the earmuffs in water.

Care Instruction :

Earmuffs are an important safety product and should be inspected regularly. Its use, care and maintenance are critical to its effective performance. Earmuffs and in particular ear cushions may deteriorate with use and should be examined at frequent intervals for cracking and leakage. If the ear cushions become hard, damaged or deteriorated, they should be replaced promptly using recommended Hygiene Kits. Earmuffs should be maintained by regular cleaning. Use a mild disinfectant solution. A gentle wipe is all that is required.

User manual number :

90011578

EAN Code :

7312550290942

CERTIFICATION AND CONFORMITY**European Directives :**

89/686/EEC

EC Category PPE* : Category II**Standards :**

EN-352-1:2002

Quality Assurance :

ISO 9001 / 2000

EC Certification Number :

EC1286

EC Attestation Number :

041199

Laboratory :

INSPEC

*PPE : Personal Protective Equipment

EC CONFORMITY DECLARATION

The manufacturer or its legal representative supplier settled in the European Community:

Howard Leight by Sperian

Declares that the next Personal Protective Equipment described here after is in conformity with the provisions of Council Directive 89/686/CEE:

Designation: Leightning L2Fs Folding Earmuff - Shooting Sport line

Reference: 1028094

Standard(s): EN-352-1:2002

This PPE is the object of the above EC attestation type:

041199

Delivered by:

INSPEC

56 Leslie Hough Way

Salford

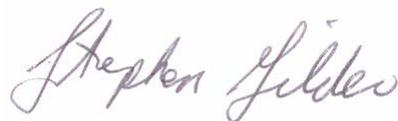
M6 6AJ Greater Manchester

United Kingdom

Made at Sweden, on the 12/17/2004

By:

Division: Head Protection



EC TYPE-EXAMINATION CERTIFICATE: 1286

Product description: -

Hearing Protection - Ear-Muffs

Product identification: -

Howard Leight Leightning L2Fs
Howard Leight Leightning L2Fs HI-VISIBILITY

Manufacturer: -

Sperian Hearing Protection LLC
7828 Waterville Road
San Diego
CA 92154
USA

When assessed and examined against harmonised standard EN352-1:2002 are found to be in conformity with Council Directive 89/686/EEC and associated amendments, relating to personal protective equipment.

Authorised EU Representative: -

Sperian Protection Europe
Immeuble Edison - ZI Paris Nord II
33 Rue des Vanesses, BP55288
95958 Roissy CDG Cedex
France

Signed



Date: 17th December 2004

K J Warren, Manager, Certification Services

For and on behalf of INSPEC International Ltd.
56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ
England (Notified Body No: 0194)

certificate invalid
if not embossed

For terms and conditions of issue, see page 2

Terms and Conditions

Reference Documents: -

- | | | | |
|------|--------------------------|---|--|
| i) | Test Reports | - | INSPEC 04.11.99 |
| ii) | Technical File | - | TF/1286 |
| iii) | Test and Inspection Plan | - | CE Product Certification, Test and Inspection Plan |

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC's Regulations governing CE Product Certification.
- iv) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.



CERTIFICATION INDEX

Item	Status	Issued	Amendment
Page 1 of 2	Withdrawn	17/12/04	Initial Issue
Page 2 of 2	Withdrawn	17/12/04	Initial Issue
Schedule ONE	Withdrawn	17/12/04	Initial Issue
Certificate, pages 1 – 4	Valid	21/10/08	Name change to Howard Leight by Sperian



CERTIFICATION SCHEDULE

Model: Howard Leight Leightning L2Fs, Howard Leight Leightning L2Fs HI-VISIBILITY

Description: Over the head ear-muff

Size Range: S / M / L

Attenuation Data

Freq. (Hz)	63	125	250	500	1000	2000	4000	8000
Mean att. (dB)	19.6	21.1	25.8	30.5	35.7	33.6	37.8	37.3
Std. Dev. (dB)	4.3	3.6	2.1	2.6	3.0	3.1	2.7	3.6
APV (dB)	15.3	17.5	23.7	27.9	32.7	30.5	35.1	33.7
	H = 32dB		M = 30dB		L = 24dB		SNR = 32dB	

