

## HEARING PROTECTION

Leightning L3s Headband Earmuff

REF. 1010924





Bilsom Technology

#### **GENERAL DATA**

**Division:** Head Protection Family: Hearing Protection

Range: Earmuffs

Line: Noise Blocking Earmuffs Brand formerly known as: BILSOM

**Business Countries** United Kingdom Middle East **EMEA** 

#### **Activity Domains:**

Administration • Agriculture • Army - Defence • Automotive and Part Manufacturer • Aviation • Building and Construction • Catering • Chemical Industries • Energy or Electricity • Fire Protection brigades • Fishing

- Food Industries
   Foundry
   Glass Industries
   Green Spaces • Homeland defense • Industrial Cleaning • Iron and steel industry • Logistics • Maintenance • Medical and Pharmaceutical • Metal steel • Minning and Quarrying
- · Offshore · Paper Industries · Petro-chemical · Printing Industries • Services • Telecoms • Textile Industries • Transportation • Utilities • Water treatment
- · Welding · Wood Industries · Laboratory · Ship

Building • Industry

Product Use: Noise Blocking Earmuff

#### **PRODUCT ADVANTAGES**

#### Feature:

#### AIR FLOW CONTROL TECHNOLOGY

Bilsom'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.

### **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.

When you're in a tough industrial environment and need to block noise, Bilsom'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):** 34

H (dB): 33
M (dB): 32

L (dB): 27

**Attenuation Data:** 

Attoriustion Data :								
Frequency (Hz) Frequenz (Hz) Fréquence (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB) Mittlere Dämmung (dB) Atténuation moyenne (dB)	23.6	24.6	27.8	32.6	37.4	35.2	38.8	35.8
(UB)	! ! !	! ! !	! ! !	! !	! ! !	 	 	
Standard Deviation (dB) Standardabweichung (dB) Déviation standard (dB)	6.4	3.6	2.0	2.0	3.3	3.2	3.1	3.3
Assumed Protection (dB) Angenommener (dB) Protection supposée (dB)	17.2	21.0	25.8	30.6	34.1	32.0	35.7	32.5

**Earmuff Construction:** 

Metal

Other Material:

Steel wire, PUR-E, PVC, Textile, PC/ABT, ABS, PP

Dielectric : No Color :

Black

**Batteries Needed:** 

None

Weight (grs):

302

Design Patents : Air Flow Control™ Headband Style :

Over-Head

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. # 1012000 for L3, L3H, L3N 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:

90010506

**EAN Code:** 7312550109243

## 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:** 

EC1294

**EC Attestation Number:** 

041108

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 L3s Headband Earmuff

Reference: 1010924 Standard(s): EN-352-1:2002

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

041108

**Delivered by:** 

INSPEC

56 Leslie Hough Way

Salford

M6 6AJ Greater Manchester

United Kingdom

Made at Sweden, on the 01/04/2005

By:

**Division:** Head Protection

Stephen Gilder





## **EC TYPE-EXAMINATION CERTIFICATE: 1294**

Product description: -

Hearing Protection - Ear-Muffs

Product identification: -

Howard Leight Leightning L3s Howard Leight Leightning L3s HI-VISIBILITY Howard Leight Worksafe No Noise 3

INSPEC

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

33 Rue des Vanesses, BP55288 95958 Roissy CDG Cedex

France

Signed .

...... Date: 4th January 2005

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: -

INSPEC 04.11.08 i) Test Reports

Technical File TF/1294 ii)

CE Product Certification, Test and Test and Inspection Plan iii)

Inspection Plan

## Conditions attached to the issue of this certificate:

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

# **CERTIFICATION INDEX**

Item	Status	Issued	Amendment
Page 1 of 2 Page 2 of 2 Schedule ONE	Withdrawn Withdrawn Withdrawn	04/01/05 04/01/05 04/01/05	1 <sup>st</sup> issued 1 <sup>st</sup> issued 1 <sup>st</sup> issued
Certificate, pages 1 – 4	Withdrawn	29/09/06	Add Worksafe No Noise 3
Certificate, pages 1 – 4	Valid	21/10/08	Name change to Howard Leight by Sperian

## **CERTIFICATION SCHEDULE**

Model:

Howard Leight Leightning L3s,

Howard Leight Leightning L3s HI-VISIBILITY Howard Leight Worksafe No Noise 3

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)	23.6	24.6	2738	32.6	37.4	35.2	38.8	35.8
Std. Dev. (dB)	6.4	3.6	2.0	2.0	3.3	3.2	3.1	3.3
APV (dB)	17.2	21.0	25.8	30.6	34.1	32.0	35.7	32.5
	H = 33dB		M = 32dB		L = 27dB		SNR = 34dB	