

**HOWARD
LEIGHT**
by SPERIAN

Bilsom Technology

GENERAL DATA**Division :** Head Protection**Family :** Hearing Protection**Range :** Earmuffs**Line :** Noise Blocking Earmuffs**Brand formerly known as :** BILSOM**Business Countries**

EMEA

United Kingdom

Middle East

Activity Domains :

Army - Defence • ATEX environment • 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 • Mining and Quarrying • Offshore • Paper Industries • Petro-chemical • Printing Industries • Services • Telecoms • Textile Industries • Transportation • Utilities • Water treatment • Welding • Wood Industries • Laboratory • Ship Building • Industry • Administration • Agriculture

**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 earmuff 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. Air Flow Control is a standard feature on all Thunder series earmuffs.

DIELECTRIC/PLASTIC CONSTRUCTION

Thunder's robust nondeforming dielectric construction withstands use and abuse, while protecting your workers in electrical environments.

NON-DEFORMING OUTER HEADBAND

Thunder's non-deforming outer headband provides better comfort, minimizes pressure on head, withstanding rough treatment in the toughest workplaces.

INNER-VENTILATED HEADBAND

Provides better positioning, minimizes pressure on the head. Soft, comfortable contact surface breathes easier in warm/humid climates.

QUICK CLICK HEIGHT ADJUSTMENT

Height adjustment remains fixed during wear.

SNAP-IN EAR CUSHIONS

Make replacement quick and easy.

Benefit :

When it comes to selecting an earmuff, comfort reigns supreme with workers. That's why the Thunder series earmuff is designed with all-day comfort in mind. Headband earmuffs feature a unique dual-headband for better positioning and breathability, and non-deforming outer headband that minimizes pressure on the head. Plus, its dielectric construction withstands use and abuse, while protecting workers in electrical environments.

TECHNICAL DESCRIPTION

SNR (dB) : 33

H (dB) : 34

M (dB) : 31

L (dB) : 25

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)	20.3	20.5	28.0	31.9	38.5	37.1	37.6	38.0
Standard Deviation (dB) Standardabweichung (dB) Déviation standard (dB)	4.2	3.6	2.8	3.5	2.7	3.4	3.1	5.2
Assumed Protection (dB) Angenommener (dB) Protection supposée (dB)	16.1	16.9	25.2	28.4	35.8	33.7	34.5	32.8

Earmuff Construction :

Plastic [or Dielectric]

Other Material :

POM, LDPE, PC/PBT, PP, PUR-E, PVC

Dielectric : Yes

Color :

Black and Dark Green

Batteries Needed :

None

Weight (grs) :

231

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. # 1010975 for T2, T2H

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 :

90009339

EAN Code :

7312550109298

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 :

0401098

EC Attestation Number :

200422136

Laboratory :

B.G.I.A.

*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: Thunder T2s Headband Earmuff

Reference: 1010929

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

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

200422136

Delivered by:

B.G.I.A.

Alte Heerstrasse 111

53754 Stankt Augustin

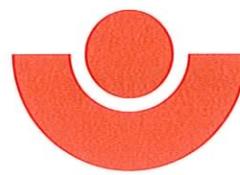
Germany

Made at Germany, on the 10/15/2004

By:

Division: Head Protection





EG-Baumusterprüfbescheinigung

0401098

Bescheinigungs-Nummer

Name und Anschrift des
Bescheinigungsinhabers:
(Auftraggeber) Bacou Dalloz AB
Box 550
S-26050 Billesholm

Name und Anschrift des
Herstellers: Bacou Dalloz AB
Box 550
S-26050 Billesholm

Zeichen des Auftraggebers: Zeichen der Prüf- und Zertifizierungsstelle: 200422136
Ausstellungsdatum: 15.10.2004

Produktbezeichnung: Kapselgehörschützer Bilsom Thunder T2s

Typ: Thunder T2s

Bestimmungsgemäße Verwendung: Kapselgehörschützer mit Kopfbügel / Persönliche Schutzausrüstung nach Art. 8 (2) der EG-Richtlinie 89/686/EWG (Kategorie II)

Prüfgrundlage: - Grundlegende Anforderungen für Gesundheitsschutz und Sicherheit nach Anhang II der EG-Richtlinie 89/686/EWG
- EN 352-1:2002
- BS EN 24869-1:1993, ISO 4869-1:1990

Zugehöriger Prüfbericht: 200422136 vom 15.10.2004

Bemerkungen: keine

Das geprüfte Baumuster entspricht den einschlägigen Bestimmungen der Richtlinie 89/686/EWG (Persönliche Schutzausrüstungen), geändert durch die Richtlinien 93/68/EWG, 93/95/EWG und 96/58/EG.

Weitere Bedingungen regelt die Prüf- und Zertifizierungsordnung vom April 2004.

Leiter der Zertifizierungsstelle


.....
(Prof. Dr. rer. nat. Dietmar Reinert)

Fachzertifizierer


.....
(Dr. rer. nat. Martin Liedtke)



European notified body
Identification number 0121

Translation

In any case, the German
original shall prevail.

EC-Type Test Certificate

0401098

No. of certificate

Name and address of the
holder of the certificate:
(customer) Bacou Dalloz AB
Box 550
S-26050 Billesholm

Name and address of the
manufacturer: Bacou Dalloz AB
Box 550
S-26050 Billesholm

Ref. of customer:

Ref. of Test and Certification Body:
200422136

Date of Issue:
2004-10-15

Product designation: Ear-muff Bilsom Thunder T2s

Type: Thunder T2s

Intended purpose: Ear-muff with headband / personal protective equipment according to article 8 (2) of the EC-directive 89/686/EEC (category II)

Testing based on: - Basic requirements for health and safety in accordance with Annex II of the EC-directive 89/686/EEC
- EN 352-1:2002
- BS EN 24869-1:1993, ISO 4869-1:1990

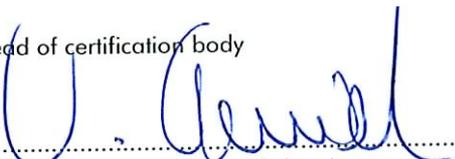
Test report: 200422136 as of 2004-10-15

Remarks: none

The type tested complies with the provisions laid down in the directive 89/686/EEC (Personal Protective Equipment), amended by the directives 93/68/EEC, 93/95/EEC and 96/58/EC.

Further conditions are laid down in the Rules of Procedure for Testing and Certification of April 2004.

Head of certification body


.....
(Prof. Dr. rer. nat. Dielmar Reinert)

Certification officer


.....
(Dr. rer. nat. Martin Liedtke)

