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CODE ARTICLE: 1011600

Casque Pliable Thunder T1Fs



Présentation générale

Numéro de référence

1011600

Type de produit

Antibruit

Gamme

Casques Antibruit

Marque

Howard Leight by Honeywell

Marque anciennement connue sous le nom de

BILSOM

Industrie

- Agriculture ■ Environnement ATEX ■ Bâtiment et Construction ■ Industries Chimiques
- Energie ou Electricité ■ Sapeurs-pompiers ■ Pêche ■ Industries Alimentaires
- Fonderie ■ Industries du Verre ■ Espaces Verts ■ Nettoyage industriel
- Industrie sidérurgique ■ Logistique ■ Maintenance ■ Pétrochimie ■ Services
- Télécommunications ■ Industries textiles ■ Services Publics ■ Soudure
- Industries du Bois ■ Construction Navale ■ Industrie ■ Administration

Utilisation du produit

Casque Arrêt du Bruit

Caractéristiques & Avantages

Caractéristique

TECHNOLOGIE AIR FLOW CONTROL™ La technologie Bilsom brevetée Air Flow Control offre une atténuation optimale dans toutes les fréquences sans augmenter la taille ou le poids des coquilles. La chambre d'air brevetée du coussinet et le revêtement de haute technologie non-tissés gèrent le flux d'air à l'intérieur du coussinet pour contrôler comment le son arrive à l'oreille. Le résultat est l'atténuation meilleure, plus régulière de pratiquement tous les bruits des environnements sonores industriels.

SERRE-TÊTE DIELECTRIQUE/PLASTIQUE Le robuste serre-tête diélectrique Thunder ne se déforme pas et résiste aux mauvais traitements tout en protégeant les travailleurs dans les environnements électriques.

CASQUE PLIABLE Casque pliable pour un rangement facile.

SERRE-TÊTE EXTERNE INDEFORMABLE Le bandeau externe Thunder ne se déforme pas, il offre un meilleur confort, réduit la pression sur la tête et résiste aux mauvais traitements dans les conditions de travail les plus difficiles.

RÉGLAGE RAPIDE DE LA HAUTEUR PAR CRANS Le réglage de la hauteur ne change pas pendant l'usage.

COUSSINETS A CRANS Coussinets à crans pour un remplacement rapide et facile.

Avantage

Lors du choix d'un casque, la caractéristique la plus recherchée par les travailleurs est le confort. C'est pourquoi le casque de la série Thunder est conçu pour assurer le confort pendant toute la journée. Le bandeau du serre-tête est caractérisé par un double bandeau pour garantir un meilleur positionnement et une meilleure respirabilité ainsi qu'un bandeau externe indéformable qui réduit au minimum la pression sur la tête. Sa construction diélectrique résiste aussi aux usages et mauvais traitements, en protégeant les ouvriers travaillant dans des environnements électriques.

Descriptif technique

SNR (dB)

31

H (dB)

33

M (dB)

28

L (dB)

22

Données d'atténuation

Frequency (Hz) Frequenz (Hz) Fréquence (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB) Mittlere Dämmung (dB) Atténuation moyenne (dB)	17.6	19.9	25.3	28.6	34.3	35.7	37.4	37.8
Standard Deviation (dB) Standardabweichung (dB) Déviation standard (dB)	4.9	4.7	4.7	4.7	3.1	2.9	3.4	3.8

Casque Pliable Thunder T1Fs - 1011600

Assumed Protection (dB) Angenommener (dB) Protection supposée (dB)	12.7	15.2	20.6	23.9	31.2	32.8	34.0	34.0
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Conception des casques antibruit

Plastique [ou Diélectrique]

Autres matériaux

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

Diélectrique

Oui

Couleur

Noi, Vert et Gris

Piles nécessaires

Aucune

Poids(g)

196

Style de serre-tête

Serre-tête

Amplification sonore

Non

Radio AM/FM

Non

Fonction d'interruption automatique

Non

Prise d'entrée audio

Non

Haute visibilité

Non

Certifications

Déclaration de conformité CE

EPI catégorie CE

11

Assurance qualité

ISO 9001 / 2000

Numéro de certificat CE

0401097

Attestation CE

 EC Attestation

Numéro d'attestation

200422139

Nous sommes désolés, aucune image n'est disponible pour le moment.

Photos et images

Maintenance

Cycle de vie

Les coussinets devraient être changés périodiquement pour maintenir une absorption maximum. Suivre les instructions suivantes pour le remplacement des coussinets et de la mousse interne. Usage et port général Les coussinets et les des mousses internes devraient être remplacés au moins tous les 6 mois. Si utilisés et portés fréquemment sous climats humide et sévère - coussinets et mousse interne devraient être remplacés au moins tous les 3 mois. En cas de cassure et perte visibles - remplacer les coussinets et les mousses internes immédiatement.

Information de stockage

Après utilisation, les casques devraient être rangés dans une boîte ou un casier sec et propre. Ne pas employer de solvants ou des produits à base de pétrole. Ne pas immerger les casques dans l'eau.

Instructions d'entretien

Les casques constituent un important dispositif de sécurité et devraient être contrôlés régulièrement. Leur efficacité dépendra de leur utilisation, soin et entretien. Les casques et en particulier les coussinets peuvent se détériorer avec l'usage et devraient être contrôlés fréquemment en cas de cassure ou de fuite. Si les coussinets deviennent durs, sont endommagés ou détériorés, ils devraient être remplacés tout de suite en utilisant les kits d'hygiène fournis. Les casques devraient être entretenus par un nettoyage régulier. Employer une solution désinfectante douce. Un chiffon doux suffit.

Pièces & Accessoires

Accessoires

Kit hygiène – Rangé dans une sacoche en plastique, avec 2 mousses auriculaires et 2 mousses de remplacement. Ref. # 1010974 for T1, T1H, T1F

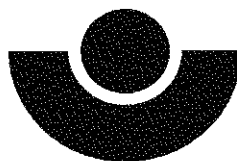
Sacoche se fixant à la ceinture – Pour le transport. Vieux Ref. # 1000252 Neuf Ref. # 1016730 Colerettes II Cool – Colerettes absorbant la sueur. Ref. # 1000365 5-paires, Ref. # 1000364 100-paires

Optisorb – Protège coussinet en coton. Ref. # 3302101Cagoule polaire - Ref. # 1016870 L/XL; Ref. # 1016871 S/M

Conditionnement

Code EAN

7312550116005



PRÜFBERICHT TEST REPORT

Nr./No.: 200422139

über die EG-Baumusterprüfung eines Gehörschützers

- | | | |
|-----|---|---|
| 1. | Auftraggeber/
Customer | Bacou Dalloz AB
Box 550
S-26050 Billesholm |
| 2. | Prüfmuster/
Test specimen | Kapselgehörschützer Bilsom Thunder T1Fs |
| 2.1 | Hersteller/
Manufacturer | Bacou Dalloz AB
Box 550
S-26050 Billesholm |
| 2.2 | Bauart, Bezeichnung/
Type, designation | Thunder T1Fs |
| | Kennzeichnung
Marking | Bilsom Thunder T1Fs EN 352 |
| 2.3 | Bestimmungsgemäße Verwendung/
intended use | Kapselgehörschützer mit faltbarem Kopfbügel / Persönliche
Schutzausrüstung nach Art. 8 (2) der EG-Richtlinie
89/686/EWG (Kategorie II) |
| 2.4 | Datum der Herstellung/
Date of fabrication | - - - |
| 2.5 | Weitere Angaben/
further details | Werkstoffe (nach Angaben des Auftraggebers):
Kapseln - PP (grün)
Kopfbügel - POM (schwarz)
Absorptionseinlagen - Polyäther
Dichtungskissen - PVC (schwarz) und Schaumstoff (PU)
Masse - 196 g (INSPEC - Prüfbericht) |

3. **Prüfung/
Testing**3.1 Art der Prüfung/
Type of test

EG-Baumusterprüfung

3.2 Datum der Prüfung/
Date of testing

4. Quartal 2004

3.3 Prüfverfahren, -grundlagen/
Test method, requirements

- 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

4 **Beurteilung, Eignung/
Assessment, suitability****(Besondere Hinweise/
Special remarks)**

Die Sicherheitsanforderungen werden von den unter 2. beschriebenen Prüfmustern erfüllt.

Der Prüfbericht Nr. 04.05.02 (INSPEC Laboratories Ltd., England) wurde der Sicherheitsbeurteilung zu Grunde gelegt.

Der Hersteller bestätigt, dass das Produkt mit der Kennzeichnung "BILSOM T1F", welches durch INSPEC geprüft wurde, identisch ist mit dem als "BILSOM T1Fs" gekennzeichneten und unter Absatz 2. beschriebenen Produkt.

Im Rahmen der EG-Baumusterprüfung wurden die technischen Fertigungsunterlagen des Herstellers nach Anhang III und die in englischer Sprache eingereichte „Informationsbroschüre des Herstellers“ nach Anhang II der EG-Richtlinie 89/686/EWG gesichtet und für angemessen in Bezug auf die grundlegenden Anforderungen der Richtlinie gehalten.

5. **Gültigkeit des Prüfberichtes/
Validity of Test Report**

Die ermittelten Ergebnisse gelten nur für die geprüften Objekte.

Einschränkungen der Gültigkeit oder
Verwendung dieses Prüfberichtes:
*Limitation of validity or use of this
Test Report:*

keine

**6. Allgemeine Hinweise/
General remarks**

Dieser Prüfbericht besteht
aus
The present Test Report
consists of

5

Seiten.
Pages.

Die Seiten 1 bis 3 enthalten das Gesamtergebnis der Prüfung. Zum vollständigen Prüfbericht gehört das Prüfprotokoll, aus dem die Einzelangaben ersichtlich sind.

Pages 1 to 3 indicate the overall test result. The complete Test Report also includes the test protocol containing all pertinent details.

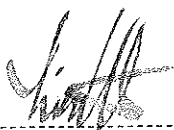
Dieser Prüfbericht berechtigt n i c h t zur Verwendung des GS-Zeichens, BG-Zeichens oder CE-Zeichens.
The present Test Report does n o t warrant the use of the GS-label, BG-label or CE-mark.

Im übrigen gilt die Prüf- und Zertifizierungsordnung der Prüf- und Zertifizierungsstellen im BG-PRÜFZERT in Verbindung mit den Allgemeinen Geschäftsbedingungen des Hauptverbandes der gewerblichen Berufsgenossenschaften e.V.

In all other respects the Rules of Procedure for Testing and Certification carried out by the Test and Certification Bodies in BG-PRÜFZERT shall apply in conjunction with the General Business Conditions of the Hauptverband der gewerblichen Berufsgenossenschaften e.V.

Für die Beurteilung:
For the assessment:

Für die Prüfung:
For the testing:



(Dr. rer. nat. Martin Liedtke)
Fachzertifizierer
Certification officer

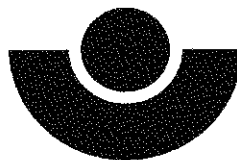


(Petra Delfs)
Leiterin des Prüflabors
Head of Testlaboratory

Anlagen / Enclosures:

Zu diesem Prüfbericht gehören als Anlage die folgenden vom BIA geprüften und mit Sichtvermerk Nr. 200422139 versehenen Unterlagen:

- Prüfbericht Nr. 04.05.02 (INSPEC Laboratories Ltd., England) (Seiten 6-19)
- technische Fertigungsunterlagen des Herstellers nach Anhang III der EG-Richtlinie 89/686/EWG (Seiten 20-26) sowie
- die „Informationsbroschüre des Herstellers“ nach Anhang II, Abschnitt 1.4. der EG-Richtlinie 89/686/EWG (Seiten 27-32)



- UNOFFICIAL TRANSLATION -

PRÜFBERICHT **TEST REPORT**

Nr./No.: 200422139

on the EC – type examination of hearing protectors

- | | | |
|-----|---|--|
| 1. | Auftraggeber/
Customer | Bacou Dalloz AB
Box 550
S-26050 Billesholm |
| 2. | Prüfmuster/
Test specimen | Ear-muff Bilsom Thunder T1Fs |
| 2.1 | Hersteller/
Manufacturer | Bacou Dalloz AB
Box 550
S-26050 Billesholm |
| 2.2 | Bauart, Bezeichnung/
Type, designation | Thunder T1Fs |
| | Kennzeichnung
Marking | Bilsom Thunder T1Fs EN 352 |
| 2.3 | Bestimmungsgemäße Verwendung/
intended use | Ear-muff with foldable headband / personal protective equipment according to article 8 (2) of the EC-directive 89/686/EEC (category II) |
| 2.4 | Datum der Herstellung/
Date of fabrication | - - - |
| 2.5 | Weitere Angaben/
further details | materials (according to the customer):
cups - PP (green)
headband - POM (black)
liners - Polyether
cushions - PVC (black) and foam (PU)
mass - 196 g (INSPEC - test report) |

3. **Prüfung/
Testing**3.1 Art der Prüfung/
Type of test

EC-type examination

3.2 Datum der Prüfung/
Date of testing

4. quarter 2004

3.3 Prüfverfahren, -grundlagen/
Test method, requirements

- 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

4 **Beurteilung, Eignung/
Assessment, suitability****The safety requirements are satisfied by the specimen described in paragraph 2.****(Besondere Hinweise/
Special remarks)**

The Test report No. 04.05.02 (INSPEC Laboratories Ltd., UK) was taken as a basis for the safety assessment.

The manufacturer confirms, that the product with the marking "BILSOM T1F" tested at INSPEC is identical to the one with the marking "BILSOM T1Fs" described in paragraph 2.

The manufacturer's technical file in accordance with Annex III and the „Information supplied by the manufacturer“ in accordance with Annex II of the EC-directive 89/686/EEC submitted in English were inspected and found to fulfil the requirements of the directive.

5. **Gültigkeit des Prüfberichtes/
Validity of Test Report**

The test results apply to the tested objects only.

Einschränkungen der Gültigkeit oder
Verwendung dieses Prüfberichtes:
*Limitation of validity or use of this
Test Report:*

none

**6. Allgemeine Hinweise/
General remarks**

Dieser Prüfbericht besteht
aus
The present Test Report
consists of

5

Seiten.
Pages.

Die Seiten 1 bis 3 enthalten das Gesamtergebnis der Prüfung. Zum vollständigen Prüfbericht gehört das Prüfprotokoll, aus dem die Einzelangaben ersichtlich sind.

Pages 1 to 3 indicate the overall test result. The complete Test Report also includes the test protocol containing all pertinent details.

Dieser Prüfbericht berechtigt n i c h t zur Verwendung des GS-Zeichens, BG-Zeichens oder CE-Zeichens.
The present Test Report does n o t warrant the use of the GS-label, BG-label or CE-mark.

Im übrigen gilt die Prüf- und Zertifizierungsordnung der Prüf- und Zertifizierungsstellen im BG-PRÜFZERT in Verbindung mit den Allgemeinen Geschäftsbedingungen des Hauptverbandes der gewerblichen Berufsgenossenschaften e.V.

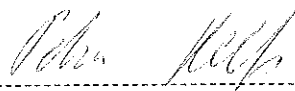
In all other respects the Rules of Procedure for Testing and Certification carried out by the Test and Certification Bodies in BG-PRÜFZERT shall apply in conjunction with the General Business Conditions of the Hauptverband der gewerblichen Berufsgenossenschaften e.V.

Für die Beurteilung:
For the assessment:

Für die Prüfung:
For the testing:



(Dr. rer nat. Martin Liedtke)
Fachzertifizierer
Certification officer



(Petra Delfs)
Leiterin des Prüflabors
Head of Testlaboratory

Anlagen / Enclosures:

The present test report includes the following documents examined and stamped by BIA with the number No. 200422139:

- test report No. 04.05.02 (INSPEC Laboratories Ltd., UK) (pages 6-19)
- the manufacturer's technical file in accordance with Annex III of the EC-directive 89/686/EEC (pages 20-26) and
- the „Information supplied by the manufacturer“ in accordance with Annex II, paragraph 1.4 of the EC-directive 89/686/EEC (pages 27-32)

**Informationen für den Benutzer nach EN 352-1, Abschnitt 6.2 /
Wearer information in accordance with EN 352-1, 6.2**

Die folgenden Informationen für den Benutzer müssen mit dem Kapselgehörschützer geliefert werden: /
The following information for the wearer shall be supplied with the ear-muff:

Gelieferte Informationen <i>Supplied information</i>	Ja <i>Yes</i>	Nein <i>No</i>	Entfällt <i>Not applicable</i>
Die Nummer der Norm / <i>the number of the standard</i> : EN 352-1:2002	X		
Handelsmarke des Herstellers, Importeur oder Lieferers <i>trade mark of the manufacturer, importer or distributor</i>	X		
Modellbezeichnung / <i>model designation</i>	X		
Hinweis auf "Sonderanforderungen" nach 8.1 (d) / <i>Statement "Optional requirements" in accordance with 8.1 (d)</i>			X
Werkstoffe des Bügels und der Dichtungskissen / <i>material of headband and cushions</i>	X		
Hinweise zum Aufsetzen/Einstellung nach 8.1 (g) und (h)/ <i>method of fitting/adjustment - 8.1 (g) and (h)</i>	X		
Hinweis auf "Sondergrößen" / <i>Statement for "Small/Large size ranges"</i>	X		
Schalldämmwerte: Mittelwert, Standardabweichung und APV-Wert bei jeder Prüffrequenz, H-, M-, L- und SNR-Wert / <i>Sound attenuation values: mean value, standard deviation and APV-value at each test frequency, H-, M-, L and SNR-value</i>	X		
Empfehlungen zum Aufsetzen, zur Einstellung, zur Tragedauer und zur Wartung nach Abs. 8.1 (i) / <i>Instructions for fitting, adjusting, wearing time and maintenance in accordance with 8.1 (i)</i>	X		
Warnung nach 8.1 (j) (Beeinträchtigung der Schutzwirkung bei unsachgemäßer Verwendung) / <i>warning in accordance with 8.1 (j) (Decrease of the protection afforded when recommendations are not adhered)</i>	X		
Hinweise zur Reinigung / <i>Instructions for cleaning</i>	X		
Angabe nach 8.1 (l) (Chemische Substanzen) <i>statement in accordance with 8.1 (l) (chemical substances)</i>	X		
Angaben nach Abs. 8.1 (m) (Dichtungskissenverschleiß) / <i>statement in accordance with 8.1 (m) (Wear and tear of the cushions)</i>	X		
Angaben nach Abs. 8.1 (n) (Hygieneüberzüge können akustische Eigenschaften verändern) / <i>statement in accordance with 8.1 (n) (fitting of hygiene covers may affect the acoustic performance)</i>	X		
Angaben für die Bestellung von Ersatzdichtungskissen / <i>Information when ordering replacement cushions</i>	X		
Empfehlungen zur Aufbewahrung / <i>recommendations for storage</i>	X		
Methode des Dichtungskissenaustausches / <i>method of cushion replacement</i>	X		
mittlere Masse der Gehörschützer / <i>mean mass of the ear-muffs</i>	X		
Anschrift zur Anforderung weiterer Informationen / <i>Adress from which additional information can be obtained</i>	X		

Prüfergebnis / Test result: Diese Sicherheitsanforderung wird erfüllt. / *This safety requirement is satisfied.*



Kennzeichnung nach EN 352-1, Abschnitt 5 / Marking in accordance with EN 352-1, 5

Die Kapselgehörschützer müssen dauerhaft mit folgenden Angaben gekennzeichnet werden:
The ear-muffs shall be durably marked with the following information:

- Name, Handelsmarke oder ein anderes Zeichen des Herstellers /
the name, trademark or other identifying mark of the manufacturer
- Modellbezeichnung / *model designation*
- Nummer dieser Europäischen Norm, d.h. EN 352 / *the number of this Standard, e.g. EN 352*
- **Kennzeichnung / Marking:** „Bilsom Thunder T1Fs EN 352“

Prüfergebnis / Test result: Diese Sicherheitsanforderung wird erfüllt. / *This safety requirement is satisfied.*

Weitere Bemerkungen / Further remarks:

Der Hersteller erklärt, dass die Teile des Gehörschützers, die mit der Haut des Benutzers in Berührung kommen, nicht dafür bekannt sind, Hautreizungen, allergische Reaktionen oder andere Gesundheitsgefährdungen hervorzurufen. Die Werkstoffe werden vom Hersteller schon seit 24 Jahren ohne jeden Hinweis auf Hautprobleme verwendet. /

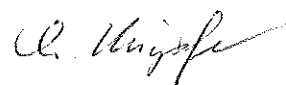
The manufacturer declares that those parts of the hearing protector that may come into contact with the wearer's skin are not known to be likely to cause skin irritation, allergic reaction or any other adverse effect on health. The materials have been used by the manufacturer without any evidence of skin problems for 24 years.

Leiterin des Prüflabors /
Head of Testlaboratory:



(Petra Delfs)

Geprüft von /
Tested by:



(Christoph Knipfer)



56 LESLIE HOUGH WAY • SALFORD • GREATER MANCHESTER • M6 6AJ • UNITED KINGDOM
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Tel: +44 (0) 16 17 37 06 99 Fax: +44 (0) 16 17 36 01 01

Test Report

EN 352-1 : 2002

Report no: 04.05.02
Client: Bacou-Dalloz AB
Dungatan 2
260 50 Billesholm
Sweden
Order(s) received: 16 and 31 March 2004
Model: Bilsom Thunder T1F
Date(s) tested: 9 April to 6 May 2004

Conditions:

This report shall not be reproduced except in full, without the written approval of INSPEC International Limited.

Opinions, comments and interpretations expressed herein are outside the scope of UKAS accreditation are shown in italics in this report.

Tests marked ☒ are not included in the UKAS accreditation schedule for INSPEC.

Samples will be returned.

Checked:

T. D. SEDDON

Approved:

A. NELSON

Issued:

6 May 2004

Page 1 of 7

Berufsgenossenschaftliches Institut für Arbeitssicherheit - BIA		
Prüf-Nr.: 2004 22139		
SICHTVERMERK		
Seite 6	Datum 15.10.04	Unterschrift <i>[Signature]</i>

Testing requested

Type of test: Mandatory

Stated product characteristics :	
Universal ear-muff	No
Wearing mode(s)	Over-the-head (O-T-H)
Size range	Large
Adjustable force	No
Replaceable cushions and liners	Yes
Fluid filled cushions	No

Sample details

Product	Submitter	Quantity	Received	INSPEC no. (P162+)
Bilsom Thunder T1F ear-muff	Client	10	16 Mar. 04	01 to 10
User instructions		1	5 May 04	-

Samples were selected by INSPEC from the submission detailed above.

Berufsgenossenschaftliches Institut für Arbeitssicherheit - BIA		
Prüf-Nr.: 2004 22139		
SICHTVERMERK		
Seite 7	Datum 15.10.04	Unterschrift 

Summary of assessment*

Clause		Samples	Result
4	Requirements		
4.2	Materials and construction		
4.2.1	Materials	05 and 06	MFR
4.2.2	Construction	05 and 06	PASS
4.3	Performance		
4.3.2	Sizing and adjustability	01 to 06	PASS
4.3.3	Cup rotation		PASS
4.3.4	Headband force		PASS
4.3.5	Cushion pressure		PASS
4.3.6	Resistance to damage when dropped		PASS
4.3.7	Resistance to damage when dropped at low temperature (optional)	-	NR
4.3.8	Change in headband force	01 to 06	PASS
4.3.9	Insertion loss	01 to 10	PASS
4.3.10	Resistance to leakage	05 and 06	NAP
4.3.11	Ignitability	05 and 06	PASS
4.3.12	Minimum attenuation ☒	01 to 04	PASS
5	Marking		
5	Marking	05 and 06	FAIL
6	Information supplied by the manufacturer		
6.1	General	05 and 06	PASS
6.2	Wearer information		FAIL
6.3	Additional information	-	MFR

Key

- PASS = the product satisfied the requirement.
 FAIL = the product did not satisfy the requirement. Refer to the "Result detail" section for more information.
 NAP = the requirement was not applicable to this product.
 NR = the requirement was not requested for assessment.
 MFR = the requirement could not be assessed and the manufacturer must certify against this requirement.

* Assessment relates only to those items tested in this report.

Berufsgenossenschaftliches Institut für Arbeitssicherheit - BIA		
Prüf-Nr.: 2004 22139		
SICHTVERMERK		
Seite	Datum	Unterschrift
8	15.10.04	<i>[Signature]</i>

Procedures

Testing was performed in accordance with EN 352-1 : 2002 (BS EN 352-1 : 2002), unless stated otherwise below.

1. The acoustic test fixture and test site used for the measurement of insertion loss were as described in ISO/TR 4869-3. A plane progressive wave was used.
2. Sound attenuation testing was performed at the University of Salford's School of Computing, Science and Engineering and was conducted by INSPEC personnel.

Result detail

4.2.1 Materials

4.2.1.1 Manufacturer to certify regarding likelihood of skin irritation, allergic reaction or any other adverse effect on health. **Mfr**

4.2.1.2 The materials of the ear-muff were visibly unimpaired after cleaning and disinfection by the methods specified by the manufacturer.

4.3.4 Headband force

Mode	Size	Force (N)						
		01	02	03	04	05	06	Mean
O-T-H	L	10.6	10.6	10.6	10.6	10.5	10.6	10.6

4.3.5 Cushion pressure

Mode	Size	Pressure (Pa)					
		01	02	03	04	05	06
O-T-H	L	2827	2823	3360	2944	3084	2768

4.3.8 Change in headband force

Headband force (following conditioning) and Change in headband force – Large size

Sample	01	02	03	04	05	06	Mean
Force (N)	9.7	9.8	9.6	9.8	9.7	9.8	9.7
Change (%)	-8.5	-7.5	-9.4	-7.5	-7.6	-7.5	-

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4.3.9 Insertion loss

Samples 01 to 10 were tested.

A summary of the insertion loss data for the individual samples, and the mean insertion loss with standard deviations at each frequency, are given in the Annex to this report.

4.3.12 Minimum attenuation ☒

Refer to the University of Salford's Test Report, No: HP/04/15, which is contained in the Annex to this report.

Attenuation

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Measured attenuation ($M_f - s_f$) (dB)	15.2	20.6	23.9	31.2	32.8	34.0	34.0

5 Marking

The following markings were present.

- a) *Manufacturer identification* – “Bilsom”.
- b) *Model designation* – “THUNDER T1” not “THUNDER T1F” marked.
- c) *Standard number* – “EN 352”.
- d) Not applicable.

Fail

All markings present were durable.

6 Information supplied by the manufacturer

The instructions to users have been assessed as detailed below, with reference only to the relevant requirements of the Standard.

INSPEC Testing Services has not assessed these instructions with respect to claims made by the manufacturer outside of these requirements, and therefore accepts no responsibility for the legitimacy of any such claims.

6.1 General

Information was provided in the English language.

6.2 Wearer information

User instructions were not provided with the samples.

Fail

One separate set of instructions was provided by the client for assessment.

- a) Standard number included.
- b) Manufacturer identification included.
- c) Model designation included - “Thunder T1F”.
- d) Not required.
- e) Headband and cushion material included.
- f) Fitting/adjustment instructions included.
- g) Size range included in wearer information.
Large size range statement included in wearer information.
Packaging/box information was not provided for assessment.
- h) The required attenuation values were included.
- i) Recommendations were included.
- j) Adhering to the recommendations warning included.

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- k) Cleaning and disinfection method included. Manufacturer to certify that the specified agents are not known to be harmful to the wearer. Mfr
- l) Chemical substances statement included.
- m) Deterioration statement included.
- n) Fitting of hygiene covers statement included.
- o) Storage conditions included.
- p) Replacement cushion information included.
- q) Cushion replacement instructions included.
- r) Mass of the ear-muffs included.
- s) Address included.

6.3 Additional information

Not assessed. Manufacturer to certify.

Mfr

(4.1.3.6) Mass

The mean mass of the ten samples was 196 grams.

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ANNEX

This Annex comprises 4 sections:-

1. University of Salford, School of Computing, Science and Engineering
Report No: HP/04/15 - 4 pages.
2. H-M-L and SNR values calculated from the results detailed
in the University's Report - 1 page.
3. Insertion loss results summary - 1 page.
4. Estimates of the uncertainty of measurement - 1 page.

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Report No: HP/04/15
Date: 29 April 2004
Page 1 of 4

TEST REPORT
SOUND ATTENUATION
OF HEARING PROTECTORS
BS EN 24869-1 : 1993
ISO 4869-1 : 1990

CLIENT: INSPEC International Limited
56 Leslie Hough Way
Salford
Greater Manchester
M6 6AJ

YOUR ORDER NO: 2/040422-2

TYPE OF HEARING PROTECTOR: Ear-muff

MODEL: Bilsom Thunder T1F

MANUFACTURER: Bacou-Dalloz AB

DATE RECEIVED: 23 April 2004

DATE(s) OF TESTS: 23, 26, 28 April 2004

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Signed:

A. Nelson
Test Engineer

Approved:

D.J. McCaul
Laboratory Manager



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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 Computing, Science & 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:

Each of the four sample hearing protectors supplied by the client was tested on four test subjects. Each test subject's protected threshold was assessed once.

The procedures specified in Clause 4.5 were followed.

OBSERVATIONS :

1. SM commented that the sound was more noticeable from the rear.

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.

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Model	Bilsom Thunder T1F
Mode tested	Over-The-Head
Attenuation results (values in dB)	See below
Test Reference No.	HP/04/04/03

Frequency (Hz)

Subject	Sample	63	125	250	500	1000	2000	4000	8000
DJM	01	28	20	24	32	40	40	42	40
GP	01	20	20	24	30	40	38	42	36
SM	01	12	16	20	28	36	34	40	31
CL	01	16	18	26	26	32	38	34	46
CN	02	16	20	23	28	36	36	34	38
SVH	02	13	15	24	26	36	32	34	38
FW	02	14	20	26	30	35	30	30	36
CW	02	13	20	26	32	28	32	36	36
SBM	03	16	16	22	22	34	33	36	39
RF	03	24	32	38	42	34	36	40	42
RB	03	22	24	18	24	33	38	40	40
RC	03	17	22	28	32	34	38	36	33
PD	04	14	22	24	25	30	34	40	36
ES	04	12	11	22	24	34	38	36	33
JB	04	24	24	30	28	34	36	38	42
RH	04	20	18	30	28	32	38	40	39
Mean									
Attenuation		17.6	19.9	25.3	28.6	34.3	35.7	37.4	37.8
Standard									
Deviation		4.9	4.7	4.7	4.7	3.1	2.9	3.4	3.8
Assumed									
Protection									
<i>SSV2</i>		12.7	15.2	20.6	23.9	31.2	32.8	34.0	34.0

Assumed Protection Value rounded to one decimal place.

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HEADBAND FORCE:

The headband force of each sample ear muff was measured as specified in Clause 4.6, at 145mm head width and 129mm head height. The measurements were recorded after a period of 2 minutes. The results are presented below:

Sample	Force (N)
01	10.2
02	10.0
03	10.0
04	10.4

REPLACEABLE PARTS:

1. Foam absorber
2. Foam filled cushions

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ATTENUATION VALUES CALCULATED FROM
UNIVERSITY OF SALFORD,
SCHOOL OF COMPUTING, SCIENCE AND ENGINEERING
REPORT NO: HP/04/15

H	=	33
M	=	28
L	=	22
SNR	=	31

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Sample Numbers: 01 to 10

Mode tested: Over-the-head

Insertion loss (IL)

Summary of results (dB)

Freq (Hz)	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000
01 Cup R	22.3	26.9	31.6	36.6	43.6	44.2	44.6	40.9	35.6	38.8	33.4	35.8	37.6	43.6	33.6	38.7
01 Cup L	25.5	29.4	30.9	34.0	35.8	37.6	40.6	40.1	32.9	36.8	29.9	36.1	35.2	38.2	37.1	36.3
02 Cup R	22.2	28.9	32.2	34.0	37.6	40.4	42.9	39.9	33.3	37.1	33.7	35.1	37.2	39.8	35.7	34.1
02 Cup L	23.7	29.1	34.1	35.8	38.9	39.6	40.7	38.7	33.6	40.8	36.3	33.5	32.9	39.8	29.6	33.0
03 Cup R	24.3	28.5	33.3	34.2	35.7	37.1	39.4	36.6	33.0	37.5	33.4	34.6	34.0	36.1	31.9	36.3
03 Cup L	23.6	28.3	33.1	34.8	37.9	41.1	43.0	39.4	33.8	40.9	36.7	34.9	38.0	40.5	34.2	35.8
04 Cup R	24.2	25.8	27.6	28.9	31.0	31.7	33.4	33.5	30.2	41.0	30.6	29.2	31.4	36.7	35.3	38.4
04 Cup L	22.5	26.2	31.3	35.4	38.6	40.2	41.7	38.3	32.7	38.1	31.6	31.5	34.6	40.2	36.9	36.8
05 Cup R	24.0	26.0	29.0	30.6	32.6	35.5	38.3	36.6	32.2	37.6	28.7	30.4	35.1	40.8	38.2	36.8
05 Cup L	23.3	28.1	32.3	34.3	36.4	37.1	38.4	34.7	32.6	37.6	33.0	35.1	35.2	40.8	36.4	35.3
06 Cup R	22.0	24.8	28.9	32.5	35.3	36.1	37.4	36.1	32.9	37.9	28.4	32.6	33.9	40.7	36.5	35.3
06 Cup L	24.5	26.3	30.9	31.9	33.9	34.6	34.4	34.0	32.6	41.4	35.6	34.1	36.0	38.6	28.6	35.6
07 Cup R	24.0	27.5	31.9	34.1	36.6	38.5	41.1	38.2	32.7	39.0	33.6	36.7	37.2	34.9	38.6	33.7
07 Cup L	21.4	23.2	25.2	27.0	29.0	33.4	38.7	36.7	32.5	36.8	30.5	30.0	33.2	36.3	38.1	40.0
08 Cup R	23.6	29.2	31.5	34.9	37.9	38.5	40.1	37.6	33.0	36.9	31.0	35.7	36.8	34.3	40.5	37.4
08 Cup L	23.9	27.2	30.3	33.2	35.5	37.2	39.6	39.4	34.2	40.1	33.0	30.8	33.7	39.0	37.0	36.3
09 Cup R	25.4	28.5	30.3	32.3	35.5	36.0	37.4	36.5	32.6	37.5	32.0	32.6	35.1	37.7	36.3	35.7
09 Cup L	25.4	29.2	32.7	35.3	37.3	37.8	40.0	38.6	34.0	44.4	31.8	32.2	35.3	43.3	37.6	35.9
10 Cup R	24.4	28.3	31.6	33.6	35.4	36.7	38.1	36.7	33.4	39.3	32.0	33.8	34.8	38.3	34.5	36.0
10 Cup L	23.1	26.6	30.3	33.0	35.2	37.2	40.1	38.0	34.2	45.7	35.1	30.0	32.1	39.6	35.1	34.1

Mean	23.6	27.4	30.9	33.3	36.0	37.5	39.5	37.5	33.1	39.3	32.5	33.2	34.9	38.9	35.6	36.1
Std. Dev.	1.2	1.7	2.1	2.3	3.0	2.8	2.7	2.0	1.1	2.5	2.3	2.3	1.8	2.5	2.9	1.7

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EN 352-1 : 2002**Estimates of the uncertainty of measurement**

Clause	Test	Uncertainty
	Weighing	1.2%
4.3.4	Headband Force	0.8%
4.3.5	Cushion Pressure	1.3%
4.3.8	Change in headband force	1.1%
4.3.9	Insertion loss	4.1% (max: 250Hz)

Values expressed as a percentage (%) are relative.

It should be noted that the above values have not been taken into account when making assessment to the pass/fail criteria.

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A		B		C		D		E	
Ass. no.	Rev.	Notes	Date	Sign.	Appr.				

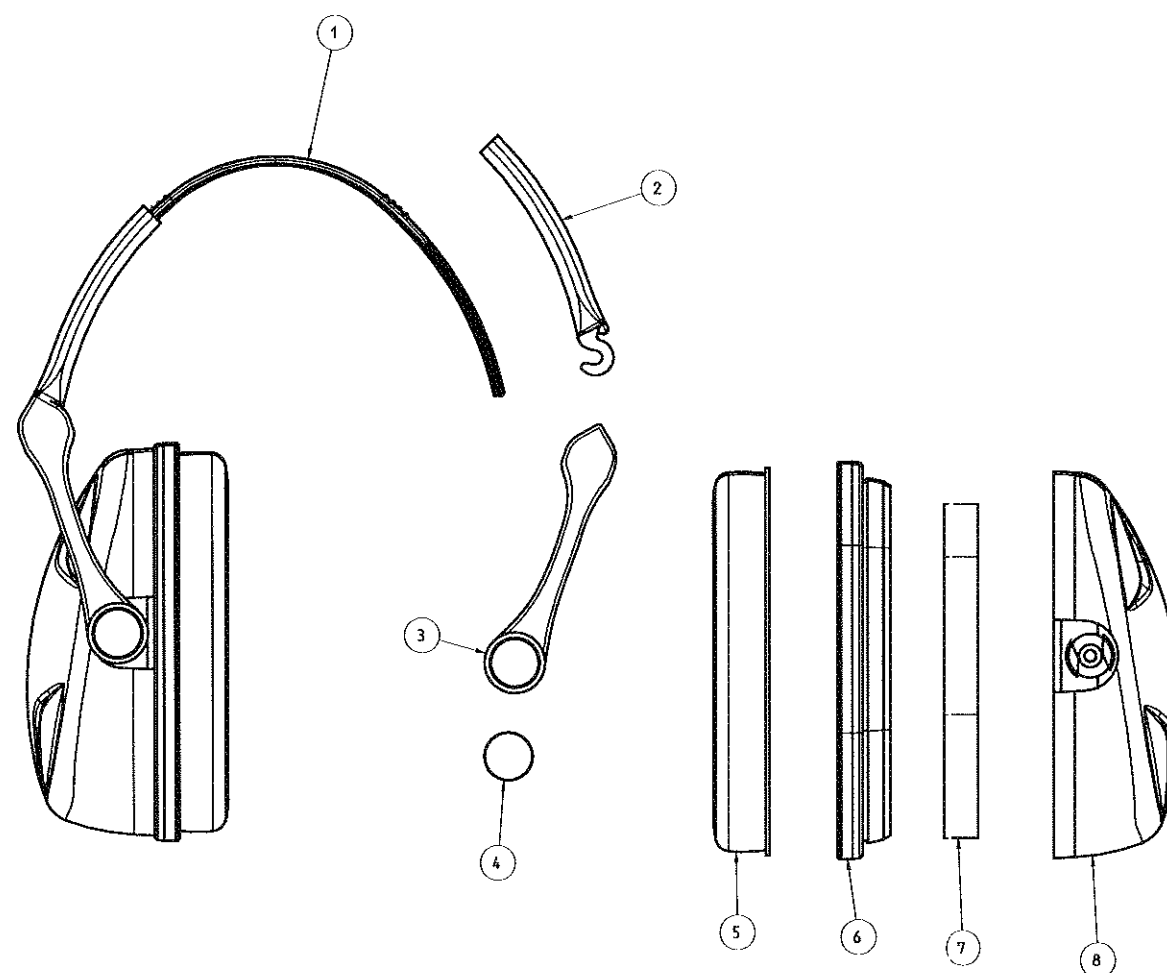
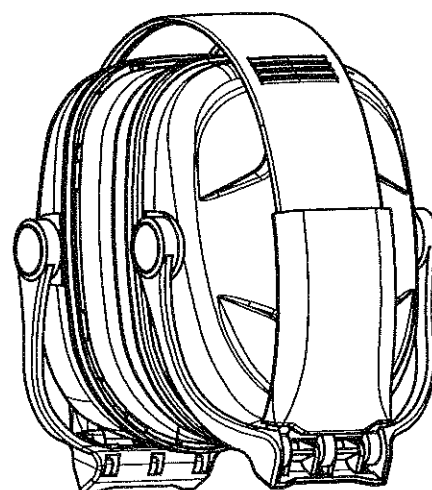
F		G		H	
Ver. A	Ver. B	Pos.	Rev.	Standard, material, notes etc.	Drp. as/Art. no.

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Pos. No.	Specifications	Standard material	Drawing / Article no.
1	Upper headband	POH	50003828
2	Headband slide	PBT	50003827
3	Headband fork	POH	50001570
4	Button for fork	POH	50000162
5	Earcushion	Plastizised PVC, PUR-E	90010857
6	Rim NST	PP	50001895
7	Foam absorber	PUR	90007570
8	Cup	PP	90010952

Drawn	HE	By	AN	Check	Appr.	Drp.	Drp.	Drp.	Drp.
Bilsom		Bilsom Thunder T1 Foldable muff		Assembly drawing		2004-05-05		1011600	

THUNDER 1^F®

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Prüf-Nr.:

2004 22-139

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INSPEC

This is to certify that:-

Bacon-Dalloz s.r.o.
Nitrianska cesta 503/60
Partizánske 95801
Slovakia

having been satisfactorily assessed and undertaken to comply with
INSPEC Certification requirements at all times is entitled to claim
that the activities defined in the associated schedules are carried out
within a management system that complies with:-

ISO9001:2000/EN ISO9001:2000/BS EN ISO9001:2000

Claim may also be made that they are an INSPEC CERTIFIED COMPANY
for the defined activities carried out at the specified address(es).

Signed for and on behalf of INSPEC


Kevin J Warren
Manager, Certification Services.

Date 14th March 2003

Certification remains valid whilst compliance with
INSPEC's surveillance and assessment programme is maintained.

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Prüf-Nr. 2004 22139		
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CERTIFICATE NUMBER Q.S.031



The use of the Accreditation Mark indicates accreditation in respect of those activities covered by the accreditation certificate number 031

INSPEC

*INSPEC International Ltd hereby confirm
that*

Bacou-Dalloz s.r.o.
Nitrianska cesta 503/60
Partizánske 95801
Slovakia

has been satisfactorily assessed against

ISO9001:2000/EN ISO9001:2000/BS EN ISO9001:2000

and has been awarded Certificate No. Q.S. 031

*The activities covered by this certificate are detailed on the associated
schedule.*

Signed for and on behalf of INSPEC International Ltd


Kevin Warren

Date: 14th March 2003

Berufsgenossenschaftliches Institut
für Arbeitssicherheit - BIA

File No: 2004 22139

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CERTIFICATION SCHEDULE

COMPANY: Bacou-Dalloz s.r.o.

SCHEDULE NO: ONE

CERTIFICATE NO: Q8031

DATE: 14th March 2003

Certification Scope:

- Manufacture of Eye Protection, Ear Muffs, Fall Protection and Respiratory Protection (Air Supplied and Power Assisted Filtering Devices).
- Final Packaging of Ear Plugs
- Supply of Personal Protective Equipment to Bacou-Dalloz internal Marketing Departments and Distribution Centres
- Final Product Control (Article 11.B/PPE Directive) of Respiratory Protective Devices

Signed for and on behalf of INSPEC

Kevin Warren, Manager, Certification Services

Berufsgenossenschaftliches Institut
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Prot-Nr:

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15.10.04

Unterschrift



Date	No. of pages incl. this
2004-06-30	1

To (organization)
BIA

From
Claes Haglund

Subject
Quality & ISO for China for new products

Dear Petra

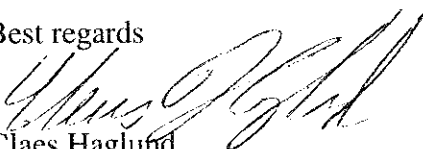
I hereby confirm that the quality management system applied to the production of each batch of the following types:

Bilsom Thunder T1 s
Bilsom Thunder T1F s
Bilsom Thunder T2 s

in the plant in:
Hang Tat Manufacturing Co. Ltd.
Flat A, 10/F.,
Blk1, Camelpaint Bldg.,
NO.62 Hoi Yuen Rd., Kwun Tong,
KLN., Hong Kong

will be identical to that applied and certified in accordance with EN ISO 9001:2000 for Bacou-Dalloz in Partizanske, Slovakia and that we will file the ISO 9001 certificate for the new plant as soon as possible.

Best regards


Claes Haglund
R&D Group leader
Bacou-Dalloz AB

Berufsgenossenschaftliches Institut für Arbeitssicherheit - BIA		
Prüf-Nr.: 2004 221 39		
SICHTVERMERK		
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Bilsom® Thunder® T1F

User instruction

1. INSTRUCTIONS FOR USE (according to picture A-I)

1. Pull out the earcups (picture A-B).
2. Place the earcups over the outer ear (picture D).
3. Adjust the crown headband by moving it up and down in the side headbands (picture E).
4. The ear cushions should seal firmly against the head (picture F-G). For best results, remove all hair under the cushion. Noise reduction will be adversely effected by anything that impairs the seal of the earmuff cushions against the head, such as thick spectacle frames, balaclavas, etc. (picture H-I).
5. After use, fold up the headband/earmuff (picture C).

2. IMPORTANT USER INFORMATION

1. The earmuffs should be fitted, adjusted and maintained in accordance with the instructions.
2. The earmuffs should be worn at all times in noisy surroundings.
3. The earmuffs should be regularly inspected for serviceability.
4. The earmuffs should be cleaned and disinfected with soap and warm water. They may not be dipped into water.
5. Earmuffs and in particular cushions may deteriorate with use and should be examined at frequent intervals for cracking and leakage, for example. For ear cushion replacement, just pull off the old ones and snap in the new. For the order of new ear cushions please see information about hygiene kit.
6. The fitting of hygiene covers to the cushions may affect the acoustic performance of the ear-muffs.
7. Before and after use, store in a dry, cool place. The temperature should not exceed +55°C.
8. This product may be adversely affected by certain chemical substances. Further information should be sought from the manufacturer.

3. APPROVAL

Bilsom Thunder T1F is tested and approved in accordance with the PPE directive 89/686/EEC and European Standard EN 352-1:2002 at INSPEC, Salford, M6 6AJ, UK, (UKAS Accredited Testlaboratory, No. 0316).

4. TECHNICAL DATA

Foldable headband earmuff. Material of headband: Acetal (POM)
Material of ear cushion: PVC and polyurethane

5. DISCLAIMER

If the above-mentioned recommendations are not followed, the protection and function afforded by the earmuffs may be severely impaired. This may cause consequences for the user for which Bacou-Dalloz can not be held responsible. Bacou-Dalloz can not guarantee that any type of warning signals incl. communication with other people in the surroundings can be heard and understood by the wearer of this hearing protector. The sound level and the frequency content of the warning signals as well as of the background noise can vary in different situations.

6. WARNING

All hearing protection affords limited protection. The user is responsible for the proper selection, use, care and maintenance of this device. Improper selection (including under/over protection), use or maintenance may lead to serious hearing loss. If there are any questions concerning this product contact your safety supervisor or Bacou-Dalloz.

These earmuffs are of 'large size range'. Ear-muffs complying with EN 352-1 are of 'medium size range' or 'small size range' or 'large size range'. 'Medium size range' ear-muffs will fit the majority of wearers. 'Small size range' or 'large size range' ear-muffs are designed to fit wearers for whom 'medium size range' ear-muffs are not suitable.

7. GUARANTEE

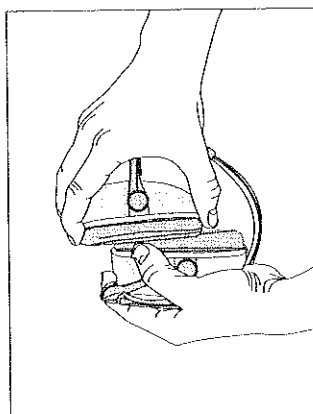
There is a one years guarantee against defects in material and workmanship. The guarantee does not cover damage caused by misuse, abuse or unauthorised modifications.

For further information please contact Bacou-Dalloz AB, Box 550, SE-260 50 BILLESOLM, Sweden
tel. +46 42 88100, fax +46 42 73822 or any of the other addresses shown.

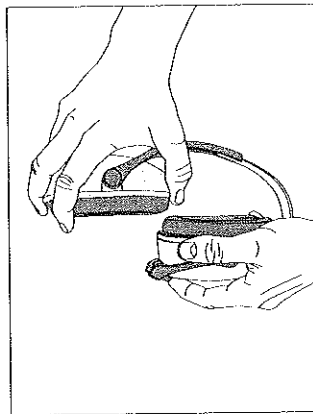
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Prüf-Nr: 2004 22139		
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27	15.10.04	

INSTRUCTIONS BILSOM Thunder T1F.

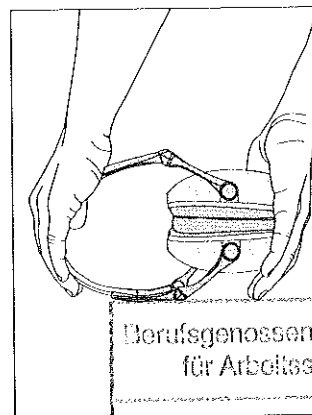
Foldable



A.

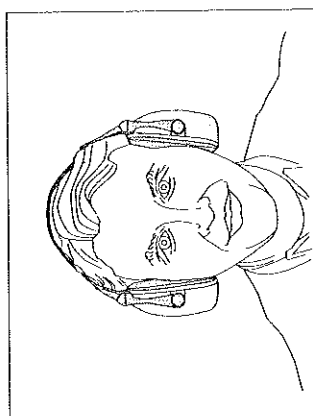


B.



C.

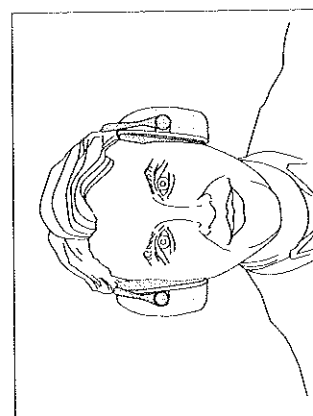
Fitting



D.

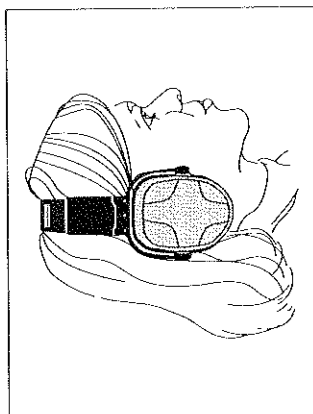


E.

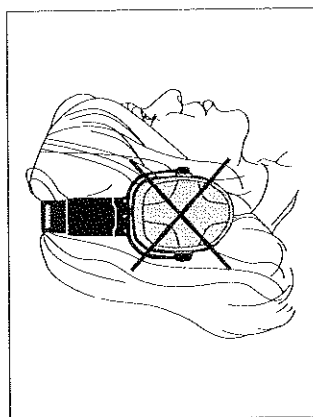


F.

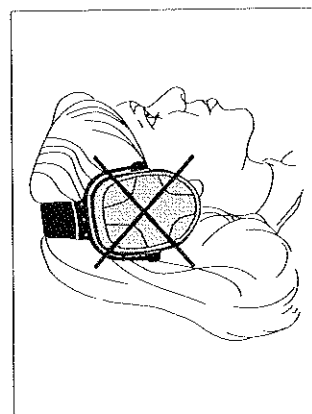
Important



G.



H.



I.

Berufsgenossenschaftliches Institut
für Arbeitssicherheit - DIA

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Unterschrift

[Signature]

ATTENUATION DATA
Tested according to ISO 4869-1:1990, ISO 4869-2:1992

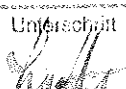
Model	① Frequency Hz	63	125	250	500	1000	2000	4000	8000
Thunder T1F _s 196 g	② Mean Att., dB	17.6	19.9	25.3	28.6	34.3	35.7	37.4	37.8
	③ Std. Dev., dB	4.9	4.7	4.7	4.7	3.1	2.9	3.4	3.8
	④ APV, dB	12.7	15.2	20.6	23.9	31.2	32.8	34.0	34.0
H=33 dB		M=28 dB		L=22 dB		SNR=31 dB			

⑤ Headband force:

Large= 10.6 N

OVER-THE-HEAD POSITION. POSITION EN SERRE-TÊTE. POSITION DES BÜGELS AUF DEM KOPF. POSICIÓN SOBRE LA CABEZA. POSIZIONE SOPRA IL CAPO. HJÄSSLÄGE. OVER-HODET STILLING. OVER HOVEDET-POSITION. PÄÄLAKIASENTO. HOOFDBAND-VERSIE. POSIÇÃO SOBRE A CABEÇA. ΘΕΣΗ ΠΑΝΩ ΣΤΟ ΚΕΦΑΛΙ. WERSJA Z PAŁĄKIERM NAGŁOWNYM. FEJRPÄNTÖS VÁLTOZAT. POŁOHA NAD HLAVOU. POŁOHA PŘI NASAZENÍ PŘES HLAVU. ПОЛОЖЕНИЕ НАД ГОЛОВОЙ.

- ① Fréquences. Frequenz. Frecuencia. Frequenze. Frekvens. Frekvens. Frekvens. Taajuus. Frequentie. Frequência. Συχνότητα. Częstotliwość. Frekvencia. Frekvencia Hz. Frekvence v Hz. Частота Гц.
- ② Atténuation moyenne. Mittelwert der Schalldämmung. Atenuación media. Attenuazione media. Medelvärde. Middelverdi. Middelværdi. Keskiarvo. Gemiddelde demping. Atenuação média. Μέση Εξασθένιση. Tűmienie średnie. Átlagos tompítás. Priemerné utlmenie. Střední utlum. Средний уровень подавления.
- ③ Ecart type. Standardabweichung. Desviación estandard. Deviazione Standard. Standardavvikelse. Standardavvik. Standardafvigelse. Standardpoikkeama. Standaard afwijking. Desvio padrão. Κανονική Απόκλιση. Odchylenie standardowe. Szabványos eltérés. Štandardná odchýlka. Standardní odchylka. Стандартное отклонение.
- ④ Protection effective in dB. Angenommene Schutzwirkung dB. Protección calculada en dB. Protezione presunta in dB. Förväntad skyddseffekt i dB. Forventet demping i dB. Forventet dæmpning i dB. Arvioitu suojausteho, dB. Verwachte beschermcapaciteit in dB. Expectativa de protecção em dB. Αναμενόμενη Προστασία σε dB. Przewidywany zakres ochrony. Feltételezett védőhatás. Zaručená ochrana, dB. Předpokládaná ochrana v dB. Предполагаемый уровень защиты, дБ.
- ⑤ Force du serre-tête. Kopfbügelndruck. Fuerza del fleje. Forza dell'archetto. Hjässbygelkraft. Hodebøylens styrke. Hovedbøjle styrke. Päälakisangan puristusvoima. Hoofdbanddruk. Armação parietal, força. Δύναμη τόξου στήριξης. Nacisk pałaka. Fejrpánterő. Tlak náhlavnej pásky. Síla náhlavního oblouku. Упругость головного обруча.

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Approval No / N° d'homologation / Zulassungsnr. / Aprobación n° / N° di omologazione / Godkännande nr. /
Godkjennelse nr. / Godkendelse nr. / Hyväksyntäno / Goedkeuringsnummer / Aprovação n° / Αρ. έγκρισης / Nr atestu
/ Jóvähagyási sz. / Osvedčenie č. / Schválení č. / Аттестат №.

	Art.no.	Approval no.
Thunder T1F.	1011600	0401097

GB Institute: BIA (0121), DE-53754 Sankt Augustin, Germany
FR Institut: BIA (0121), DE-53754 Sankt Augustin, Allemagne
DE Institut: BIA (0121), DE-53754 Sankt Augustin, Deutschland
ES Instituto: BIA (0121), DE-53754 Sankt Augustin, Alemania
IT Istituto: BIA (0121), DE-53754 Sankt Augustin, Germania

Hygiene kit / Kit d'hygiène / Hygieneset / Juego higiénico / Kit igiene /
Hygiensats / Hygienesett / Hygiejneindlæg / Hygieniasarja / Hygiëneset / Kit
de higiene / Kit Υγιεινής με / Wkład higieniczny / Higiéniiai csomag /
Hygienická súprava / Hygienická souprava / Гигиенический набор

	Art.no.	Hygiene kit* art.no.
Thunder T1F.	1011600	1010974

* Foamabsorber and foamfilled replaceable ear cushions x2. Amortisseur en mousse et coussinets remplaçables remplis de mousse x2. Schaumstoffabsorber und Schaumstoff gefüllte, austauschbare Ohrauflagen x2. Absorbedor de espuma y almohadillas auditivas desechables rellenas de espuma x2. 2 auricolari fonoassorbenti e riempiti con schiuma sostituibili. Skumabsorbent, skumfyllda utbytbara tättningsringar x2. Skumabsorbent og skumfylte utbyttable øreputer x 2. Skumplade og udskiftelige skumfylde tættningsringe x2. Vaahtomuovinen vaimenninosa ja vaahtomuovitäyteiset vaihdettavat tiivisterenkaat x2. Schuimabsorbeerder en met schuim gevulde vervangbare oorkussens 2x. Protectores acústicos con espuma absorbente e enchimento de espuma substituíveis x2. Αφρώδες απορροφητικό υλικό και αντικαταστάσιμα μαξιλαράκια ακουστικών από αφρώδες υλικό ω2. Piankowy pochłaniacz potu i piankowe wymienne pierścienie uszczelniające x2. Habszivacs zajelnyelő és habszivaccsal töltött, cserélhető fülvédő párnák x2. Penový absorbér a penou plnené vymeniteľné ušné vankúšiky x2. Pěnový pohlcovač a výměnné náušníky vyplněné pěnou, 2x. Сменные подушечки, заполненные пенополиуретаном, 2шт.

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Prüf-Nr: 2004 22739		
SICHTVERMERK		
Serie 31	Datum 15.10.04	Unterschrift 

Bilsom



Déclaration de conformité CE

Le fabricant ou le fournisseur agissant en qualité de représentant légal au sein de la Communauté européenne:

Honeywell Safety Europe

Déclare que l'Équipement de Protection Individuelle décrit ci-dessous est conforme aux dispositions de la Directive européenne 89/686/CEE:

Désignation: Casque Pliable Thunder T1Fs

Référence: 1011600

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

Cet EPI fait l'objet du certificat d'examen CE ci-dessous, n °:

0401097

Délivré par:

B.G.I.A.

Alte Heerstrasse 111

53754

Stankt Augustin

Germany

Fait en Allemagne, le 01/04/2014

Par:

Division: Antibruit

ZI Paris Nord II 33, rue des Vanesses BP 50288 95958 Roissy CDG France

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