

# CERTIFIKA

# **EC Type Examination Certificate** 13 19 01

# 3MTM Industrial Safety Helmet G22C & G22D

#### Holder/Issued to/Manufacturer

3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT, UK

#### Product description and product name

Industrial safety helmet "3M" Industrial Safety Helmet G22C & G22D", in compliance with EN 397:2012. This certificate covers the following models: G22C, G22D, size 54-62 cm. For details see page 2.

#### **Technical documentation**

The manufacturer's technical file, latest dated 2014-01-15.

#### Certification

SP Technical Research Institute of Sweden hereby certifies that the manufacturer's technical file and the product have been inspected and found to fulfil the requirements set out in Directive 89/686/EEC, Article 10. The certification is verified by a type test in accordance with EN 397. The product also complies with additional requirements in EN 397, as can be seen in page 2.

#### Miscellaneous

The manufacturer's information in English on use, cleaning, storage etc. has been inspected and found to fulfil the relevant requirements of the Directive. This information must be available in the language used where the product is to be sold.

#### Validity

This certificate was first issued on 26th June 1995. The certificate remains valid as long as the conditions laid down in the harmonised standard(s) in reference are not modified significantly or at the latest until 31st January 2019.

SP Technical Research Institute of Sweden

Certification - Notified Body No.0402

Lennart Månsson Certification Manager

Lennart Aronsson Certification Officer



# CERTIFIKAT

**EC Type Examination Certificate** 

#### **Product information**

#### Models

Helmet designation	Hamess designation*	Design	Op (Numberi	Marking			
			Very low temperature (5.2.1)	Lateral deformation (5.2.4)	Molten metal splash (5.2.5)		
			(-30°)	LD	ММ		
G22C	G2C	G22 Shell with ventilation openings	X	X	X	-30°C LD MM	
G22D	G2D		X	X	X	-30°C LD MM	

\* Harness designations G2C Plastic sweatband G2D Leather sweatband

EC Type Examination Certificate no. 131901, issue 4, valid from 31st January 2014 - page 2(2)

prior written approval by SP

SP Technical Research Institute of Sweden



notified by the Ministry of Social Affairs and Health and identified under 0403 grants

# EC TYPE EXAMINATION CERTIFICATE EXTENSION

23199JPS06

for ear muff type hearing protectors as defined in EN 352-3:2002

Peltor Optime I, H510P3\*
Peltor Optime II, H520P3\*
Peltor Optime III, H540P3\*
Peltor H31P3\*

3M Svenska AB Värnamo Sweden

These products comply with Directive 89/686/EEC, as amended

Helsinki, 03 January 2012

Helena Mäkinen Team Leader

I dea in

Erja Tammela Senior Specialist

This certificate comprises 3 pages and two appendices.

Finnish Institute of Occupational Health, Notified Body No. 0403, Topeliuksenkatu 41 a A, FI-00250 Helsinki, Finland

EC type examination certificate extension 23199JPS06, 2012-01-03

Page 2 (3)

#### 1. Applicant

3M Svenska AB Malmstensgatan 19 S-33102 Värnamo Sweden

#### 2. Description and identification of the products

Type:

Hearing protectors attached to industrial safety helmets, Peltor G22 helmet as the

basic set and supplementary combinations as listed in Table in Appendix 2.

Name:

Peltor Optime I, H510P3\* Peltor Optime II, H520P3\* Peltor Optime III, H540P3\*

Peltor H31P3\*

The stars in the name stand for different wedge-models in the helmets

Manufacturer: 3M Svenska AB

Picture of the products:



Optime I (H510P3), Optime II (H520P3), Optime III (H540P3) and H31P3\*

#### Alterations to the original product (EC type examination certificate no. 23199JPS05rev)

The secondary sets with the following helmets are added: 3M Airstream AH1, AH4, AH7, HT-701, HT-702, HT-705, HT-707; Centurion Concept; 3M G500 Headgear; 3M Versaflo M-106, M-107, M-306, M-307



EC type examination certificate extension 23199JPS06, 2012-01-03

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#### Adequacy and validity of the technical documentation 4.

The documentation concerning the supplementary combinations is described in Appendix 1.

The documents referred to and assessment in EC type examination certificate 23199JPS05rev do apply. The modification of the product is documented adequately.

The supplementary combination has been tested in accordance with harmonized European standard EN 352-3:2002 by accredited testing methods. The models of the products supplied by the applicant conform to the technical documentation.

The supplementary combinations and the accordingly modified technical documentation comply with the relevant basic health and safety requirements stated in Directive 89/686/EEC as amended by 93/95/EEC, 93/68/EEC and 96/58/EC.

Note: Any modification in design, materials, or in the technical documentation, carried out on this type-examined product must be brought to the attention of FIOH.

Appendix 1. Documentation

List of possible helmet combinations Appendix 2.

End of EC type examination certificate extension.



EC type examination certificate extension 23199JPS06, 2012-01-03 Appendix 1. Page 1 (1)

#### Technical and other documentation regarding EC type examination certificate

Product name: Peltor Optime I (H510P3\*), Peltor Optime II (H520P3\*), Peltor Optime III

(H540P3\*) and Peltor H31P3\* with industrial safety helmets

Applicant: 3M Svenska AB

Item of documentation Document identification Remarks 1. Application for the EC type 2010-04-14, Nermin Jusufovic Adequate examination Material assembly: The products and materials are 2. Product drawing, construction, P010445, 2002-02-07 P010449, 2002-02-07 identified and material list P010441, 2002-02-07 P950220 rev.a, 2008-05-20 Pkg Spec No.: XA-0077-7341-O Issi Primary label: XH-0016-5070-0 3. Compliance with Directive The compliance assessment is based on reports mentioned below items 89/686/EEC relevant basic 3.1 - 3.4requirements The applied harmonised standard EN 2012-01-03 3.1 FIOH assessment of relevant 352-3:2002 supports the relevant Directive basic requirements requirements 95081503, 2001-03-26 The product fulfils the requirements 3.2 FIOH test reports of EN 352-3:2002 95086T01, 1995-06-15 95484T01, 1995-09-20 98266T01, 1998-10-03 20084T01, 2000-03-21 21046T01, 2001-03-13 22004T01, 2002-04-12 21361T01, 2002-04-12 21331T01, 2002-04-12 23199T01, 2003-09-10 26099T01, 2006-09-07 26100T01, 2006-09-07 26101T01, 2006-09-07 26102T01, 2006-09-07 26103T01, 2006-09-07 26104T01, 2006-09-07 26105T01, 2006-09-07 26106T01, 2006-09-07 26276T01, 2007-08-29 26276T02, 2007-07-27 29201T01, 2009-06-17 29453T01, 2009-11-02 29563T01, 2010-01-14 10193T01, 2010-04-29 Adequate Peltor Passive Muff UI, 3.3 Draft information sheet XA-0077-7412-9\_Iss2 Adequate On product 3.4 Product markings Quality assurance P951364.ver4, Adequate for category II products 4. Description of the production quality system and related 2011-11-23

End of documentation list.

facilities

product control and test

Finnish Institute of Occupational Health Notified Body 0403 Topeliuksenkatu 41 a A FI-00250 Helsinki Finland Tel. +358 - 30 - 4741
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Table 1. List of possible helmet combinations (S=small size, N=normal size, L=large size)

Helmet	Helmet model	Wedge	H31	H510	H520	H540
manufacturer	<u> </u>		CNII		CNII -	
Auboueix	Brennus	F	SNL	SNL	SNL	SNL
Auboueix	Fondelec	F	SNL	SNL	SNL	SNL
Auboueix	Iris	E	NL	NL	NL	NL
Auboueix	Iris 2	E	NL	NL	NL	NL
Sofop Taliaplast	Oceanic	E	NL	NL	NL	NL
Sofop Taliaplast	Opus	E	NL	NL	NL	NL
Berendsen Safety,	Balance HD	N	SNL	SNL	SNL	SNL
Centurion	1125/ARCO plus	Н	SNL	SNL	SNL	SNL
Centurion	1100/ARCO type 2	Н	SNL	SNL	SNL	NL
Centurion	1540/ARCO	Α	NL	NL	NL	NL
Evert Larsson	Robust	E	SNL	SNL	SNL	SNL
Evert Larsson	Balance	E	NL	NL	NL	NL
Evert Larsson	Balance AC/3M 1465	E	NL	NL	NL	NL
Kemira	Top Cap	A	SNL	SNL	SNL	SNL
LAS	LP2002	E	SNL	SNL	SNL	SNL
LAS	LP2006	E	SNL	SNL	SNL	SNL
MSA	Super V-Gard II	E	SNL	SNL	SNL	SNL
MSA	V-Gard	E	SNL	SNL	SNL	SNL
3M	G2000	K,E	SNL	SNL	SNL	SNL
3M	G22 (BASIC SET)	E	SNL	SNL	SNL	SNL
3M	G3000	E	SNL	SNL	SNL	SNL
Petzl	Vertex	E	SNL	SNL	SNL	SNL
Protector	Style 300	E	SNL	SNL	SNL	SNL
Protector	Style 600	E	SNL	SNL	SNL	SNL
Protector	Tuffmaster II	E, G	NL	NL	NL	NL
Römer	Bravo 2 Nomaz	В	SNL	SNL	SNL	SNL
Römer	Marcus Top 2 Atlas Nomaz	В	SNL	SNL	SNL	SNL
Römer	N2 Atlas Nomaz	BB	SNL	SNL	SNL	SNL
Römer	Profi Expo	E	SNL	SNL	SNL	SNL
Römer	Profi Nomaz	E	SNL	SNL	SNL	SNL
Römer	Top Expo Atlas	В	SNL	SNL	SNL	SNL
Schuberth	BEN	BB	SNL	SNL	SNL	SNL
Schuberth	BER80/WPC80	EA	SNL	SNL	SNL	SNL
Schuberth	BER S	E	SNL	SNL	SNL	SNL
Schuberth	BOP R	В	SNL	SNL	SNL	SNL
Schuberth	PIONIER	В	SNL	SNL	SNL	SNL
Schuberth	SH 91/WPL 91	EB	SNL	SNL	SNL	SNL
Schuberth	SW1	EB	NL	NL	NL	NL
UVEX	Airwing	E	SNL	SNL	SNL	SNL
Voss	Inap 88	E	SNL	SNL	SNL	SNL



EC type examination certificate extension 23199JPS06, 2012-01-03 Appendix 2. Page 2 (2)

Voss	Inap Master	E	NL	NL	NL	NL
Voss	Inap Star	E	NL	NL	NL	NL
Voss	Inap PCG	G	NL	NL	NL	NL
3M	Airstream AH1, AH4	AE	NL	NL	NL	L
3M	Airstream AH7	AE	NL	NL	NL	L
3M	Airstream HT-701, HT-702, HT-705	AE	NL	NL	NL	L
3M	Airstream HT-707	AE	NL	NL	NL	L
Centurion	Concept	E	SNL	SNL	SNL	SNL
3M	G500 Headgear	E	SNL	SNL	SNL	SNL
3M	Versaflo M-106, M-107	AF	NL	NL	NL	NL
3M	Versaflo M-306, M-307	AF	NL	NL	NL	NL



rotified by the Ministry of Social Affairs and Health and identified under 0403 grants

# EC TYPE EXAMINATION CERTIFICATE EXTENSION

10340SKS02

for face shield against low energy impact F as defined in EN 1731:2006

5B, 5C and 5J mesh face screens mounted on G500 headgear or with Model V5 helmet link system attached to helmets 3M/Peltor G3000 and 3M/Peltor G22

3M Svenska AB 33102 Värnamo, Sweden

This product complies with Directive 89/686/EEC, as amended

Helsinki, 08 July 2011

Erja Tammela Senior Specialist Anna Ruhala Researcher

This certificate extension comprises 3 pages and an appendix.



#### 1. Applicant

3M Svenska AB Box 2341 SE-33102 Värnamo, Sweden

#### 2. Description and identification of the product

Type: Mesh face screen type eye and face protectors mounted on G500 headgear or

with Model V5 helmet link system attached to helmets 3M/Peltor G3000 or

3M/Peltor G22 as defined in EN 1731:2006

Name: 5B, 5C and 5J

Description: Model 5B is a plastic mesh visor Model 5C is a metal mesh visor

Model 5J is a an etched metal mesh visor

All visors are black and are mounted either to the Model G500 headgear or to

the Model V5 helmet link system.

Manufacturer: 3M Svenska AB

Pictures of the products are on page 3

#### Alterations to the original product (EC type examination certificate no. 10340SKS01)

The product has the same design and construction as earlier (Certificate 10340SKS01) with the following changes:

A new model 5J is added Model V5 link system attached to helmets Modification of the mesh visor frame of all models

# 4. Adequacy and validity of the technical documentation

The documentation concerning the modification of the products is described in Appendix 1.

The documents referred to and assessment in EC type examination certificate 10340SKS01 do apply. The modification of the product is documented adequately.

The alterations to the original product have been tested in accordance with harmonized European standard EN 1731:2006 by accredited testing methods. The models of the products supplied by the applicant conform with the technical documentation.

The modified product and the accordingly modified technical documentation comply with the relevant basic health and safety requirements stated in Directive 89/686/EEC as amended by 93/95/EEC, 93/68/EEC and 96/58/EC.

Note: Any modification in design, materials, or in the technical documentation, carried out on this type examined product must be brought to the attention of FIOH.

Appendix 1. Technical documentation







Model 5B on G500 headgear





Model 5C on G500 headgear





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Model 5J on G500 headgear

End of EC type examination certificate extension 10340SKS02.



# Technical and other documentation regarding EC type examination certificate extension 10340SKS02

Product name:

5B, 5C and 5J mesh face screens

Applicant:

3M Svenska AB

Item of technical documentation

Application for the EC type examination

Document identification Nermin Jusufović, 2011-07-08 Assessment
Contains adequate information

2. Product drawing,

construction, and material list

P090349, Rev b.01, 2009-11-12 P100424, Rev b.02, 2010-05-24 P100539, Rev a.05, 2010-07-06 P100819, Rev a.03, 2010-12-23 P110133, Rev a.00, 2011-04-04

P110339, Rev a.00, 2011-07-04

The product and materials are identified

 Compliance with Directive 89/686/EEC relevant basic requirements The compliance assessment is based on reports mentioned below

items 3.1-3.4

3.1 FIOH assessment of relevant Directive basic requirements 2011-07-08

The applied harmonised standard EN 1731:2006 supports the relevant

Directive book requi

10026T01, 2010-01-21 166584T01, 2011-05-16 166584T02, 2011-06-29 requirements
The product fulfils the requirements

3.3 Draft information sheet

Appendix to the application

Adequate

3.4 Product markings

3.2 Test report

On the drawings and samples

Adequate

 Description of the production quality system and related product control and test facilities Quality assurance for Mesh-visor according to EN 1731, P100448 ver.b, 2011-06-30

Adequate for category II products

End of documentation list



# TESTING OF HEARING PROTECTORS IN **ACCORDANCE WITH prEN 352-3:1993**

Date: 15.6.1995

Name:

Peltor H31P3

Manufacturer:

**Peltor AB** 

Type:

Ear muff attached to industrial safety helmet type Peltor G22C/D as the basic

Description: Grey cup, black liquid-filled cushions, metal band

# FINNISH INSTITUTE OF OCCUPATIONAL HEALTH DEPARTMENT of PHYSICS

Technical manager

Esko Toppila Researcher

**OUR RERERENCE 95086T01** 

Customer's reference:

## **TEST REPORT NUMBER 95086T01**

#### CUSTOMER

Peltor Ab Box 2341 33102 Värnamo

# **DESCRIPTION AND IDENTIFICATION OF THE TEST ITEMS**

Name

Peltor H31P3

Type:

Ear muff attached to industrial safety helmet type Peltor G22C/D as the basic

Description: Grey cup, black liquid-filled cushions, metal band

Manufacturer: Peltor AB

#### **TEST ITEMS** 3.

Ten items were supplied by the customer 1.4.1995. They were intact.

#### **TESTING**

The tests were performed during 1.4.1995 - 15.6..1995 in the testing laboratories of the Department of Physics. The tests were performed according to the standard prEN 352-3/September 1993.

#### RESULTS 5.

# 5.1. Adjustability

The nominal size of ear-muffs was measured from specimens 1-6 in accordance with 7.2.

		Width mm	
Test Height mm	125	145	155
	. s	N	-
115	N	N	N
130	1.1	N	T.
140		N	<u> </u>

Peltor H31P3 satisfies the requirements in the small, normal and large size range

#### 5.2. Cup rotation

Cup rotation was measured from specimen 1-6 in accordance with 7.3. The ability of the cups to accommodate a range of angular movements was tested. The contact between the cushions of Peltor H31P3 and the plates was continuous throughout this range.

## 5.3. Equivalent headband force

The headband force was measured from specimen 1-6 in accordance with 7.4. The mean value of headband force for the specimens 1-6 was 9.6 N for small head size (S), 11.7 for normal head size (N) and 10.6 for large head size (L). In all positions the headband force shall be not greater than 14 N.

### 5.4. Cushion pressure

Cushion pressure was measured from specimen 1-6 in accordance with 7.5. The cushion pressure of Peltor H31P3 was 2500 Pa for small head size (S), 2860 Pa for normal head size (N) and 2530 Pa for large head size (L). In all cases the cushion pressure shall be not greater than 4500 Pa.

# 5.5. Resistance to damage when dropped

Resistance to damage when dropped was measured in accordance to 7.6. Peltor H31P3 did not crack or become detached.

# 5.6. Resistance to low temperature (optional)

Not performed

# 5.7. Change in equivalent headband force

Specimens 1-6 were subject to headband flexing in accordance with 7.9 and to water immersion in accordance with 7.10. After conditioning (60±5) min in (22±5) °C the headband force was measured again. The headband force shall not change by more than ±20%.

Specimen number	Change in headband force (%)			
1	+3			
2				
3	6			
4	3			
5	6			
6	-3			

#### 5.8. Insertion loss

Insertion loss was tested from specimen 1-10 in accordance with 7.12. The results are shown below.

Frequency	63	125	250	500	1000	2000	3150	4000	6300	8000
(Hz) Mean IL (dB)	16.7	16.9	16.9	36.6	36.6	49.6	37.8	35.0	35.4	36.8
std.dev(dB)	0.3	0.8	0.9	0.6	0.9	1.2	1.3	1.6	0.8	0.5

# 5.9. Resistance to leakage

The resistance to leakage was tested in accordance with 7.13. No leakage was observed.

## 5.10. Ignitability

Ignitability was tested from specimen 5-6 in accordance with 7.14. Peltor H31P3 did not ignite or continue to glow after removal of the heated rod.

#### 5.11. Sound attenuation

Sound attenuation was tested from specimen 1-4 in accordance with 7.15.

# Sound attenuation characteristics of Peltor H31P3 attached to industrial safety helmet type Peltor G22C/D

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation (dB)	11.8	19.2	28.6	34.3	37.7	39.1	37.8	36.3	38.0
St. deviation	3.2	3.8	2.7	1.8	3.8	2.9	2.9	3.3	1.9
APV (84%)	8.6	15.4	25.9	32.5	33.9	36.2	34.9	33.0	36.1

 $H_{84} = 35 \text{ dB}$ 

 $M_{84} = 26 \, dB$ 

 $L_{84} = 16 \, dB$ 

 $SNR_{84} = 28 dB$ 

#### 5.12. Secondary set measurements

Not applicable

FINNISH INSTITUTE OF OCCUPATIONAL HEALTH Department of Physics
Laajaniityntie 1
FIN-01620 Vantaa
tel. 358-0-47471, fax. 358-0-890713



# Konformitätserklärung

3M UNITED KINGDOM PLC ERKLÄRT HIERMIT, DASS DIE NACHSTEHEND BESCHRIEBENE AUSRÜSTUNG MIT DEN FOLGENDEN EUROPÄISCHEN RICHTLINIEN ÜBEREINSTIMMT.

Produkttyp/Modell: Helm-Kombination, G22, STIHL, G22C310RV5C STI (XA007707178 / 0000-884-2401)

Name des Herstellers: 3M Personal Safety Division Adresse: ul. Kowalska 143, 51-424, Wroclaw, Polen Telefon: +48 71 395 9710 Telefax: +48 71 3959 880

#### Richtlinie(n)

#### PSA (Persönliche Schutzausrüstung)

(DE) Die PSA-Richtlinie gilt für persönliche Schutzausrüstung.

Diese Ausrüstung stimmt überein mit den Bestimmungen der Richtlinie 89/686/EEC und, wo dies zutrifft, mit den nationalen Normen, die die harmonisierten Normen Nr: EN1731:2006, EN352-3:2002, EN397:2012 umsetzen.

Diese Ausrüstung ist identisch mit der PSA, für die die EWG-übereinstimmungsbescheinigung (Certificate of Conformity) Nr. 10340SKS02, 23199JPS06, 131901 gilt, ausgestellt vom SP Technical Research Institute of Sweden (Notified Body No.0402).

#### Benannte Stellen

SP Technical Research Institute of Sweden (Notified Body No. 0402), Box 857, SE-501, 15 Boras, Schweden

Bracknell, 18, März 2014

Nike Threm

Ort und Datum

Mike Thomas, European Technical and Regulatory Affairs Manager

Name und Funktion des Unterzeichners



# **Declaration of Conformity**

3M UNITED KINGDOM PLC DECLARES THAT THE EQUIPMENT DESCRIBED HEREAFTER IS IN CONFORMITY WITH THE FOLLOWING EUROPEAN DIRECTIVES.

Type of product/model: Helmet combination, G22, STIHL, G22C310RV5C STI (XA007707178 / 0000-884-2401)

Name of Manufacturer: 3M Occup Health and Env Safety Address: ul. Kowalska 143, 51-424, Wroclaw, Poland

Telephone No: +48 71 395 9710 Telefax No: +48 71 3959 880

#### Directive(s)

#### PPE (Personal Protective Equipment)

(EN) The PPE Directive applies to personal protective equipment.

This equipment is in conformity with the provisions of Council Directive 89/686/EEC and, where such is the case, with the national standard transposing harmonised standard(s) No: EN1731:2006, EN352-3:2002, EN397:2012.

This equipment is identical to the PPE which is subject of EC certificate of conformity No. 10340SKS02, 23199JPS06, 131901 issued by SP Technical Research Institute of Sweden (Notified Body No.0402).

#### Notified bodies

SP Technical Research Institute of Sweden (Notified Body No. 0402), Box 857, SE-501, 15 Boras, Sweden

Bracknell, 18th March 2014

Place and date

Mike Thomas, European Technical and Regulatory Affairs Manager

Name and function of the signatory



# Déclaration de conformité

3M UNITED KINGDOM PLC DÈCLARE QUE L'ÉQUIPEMENT DÉCRIT CI-APÉS EST CONFORME AUX DIRECTIVES EUROPÉENNES SUIVANTES.

Type de produit/modèle: Casque combinaison, G22, STIHL, G22C310RV5C STI (XA007707178 / 0000-884-2401)

Nom du fabricant: 3M Occup Health and Env Safety Adresse: ul. Kowalska 143, 51-424, Wroclaw, Pologne Téléphone: +48 71 395 9710 Fax: +48 71 3959 880

#### Directive(s)

#### EPI (Equipement de Protection Individuelle)

(FR) La directive EPI s'applique aux équipements de protection individuelle.

Cet équipement est conforme aux dispositions de la directive européenne 89/686/EEC et, le cas échéant, à la norme nationale transposant la(les) norme(s) harmonisée(s) n°: EN1731:2006, EN352-3:2002, EN397:2012.

Cet équipement est identique à l'EPI qui est soumis au certificate de conformité CE n° 10340SKS02, 23199JPS06, 131901 émis par SP Technical Research Institute of Sweden (Notified Body No.0402).

### Organismes avisés

SP Technical Research Institute of Sweden (Notified Body No. 0402), Box 857, SE-501, 15 Boras, Suède

Bracknell, 18/04/2014

Lieu et date

Mike Thomas, European Technical and Regulatory Affairs Manager

Nom et fonction du signataire