



Finnish Institute of  
Occupational Health

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

# EC TYPE EXAMINATION CERTIFICATE

11175LKS01

for face shield of optical class 1, against medium energy impact at extremes of temperature BT, high energy impact A, splashes of liquids 3, short circuit electric arc 8, molten metals and hot solids 9, surface damage K and fogging N with ultraviolet filter, shade number 2C-1,2 as defined in EN 166:2001 and EN 170:2001

**5F-1 and 5F-2 clear visors mounted on G500 headgear or with Model V5 helmet link system attached to helmets  
3M/Peltor G3000, 3M/Peltor G22 and 3M H-700**

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 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: Face screen type eye and face protectors mounted on model G500 headgear or with Model V5 helmet link system attached to helmet 3M/Peltor G3000, 3M/Peltor G22 or 3M H-700 as defined in EN 166:2001 and EN 170:2001

Name: 5F-1 and 5F-2

Description: Model 5F-1 is a clear polycarbonate visor with anti-fog coating on both sides of the visor.

Model 5F-2 is a clear polycarbonate visor with hard coating on the front and anti-fog coating on the back side of the visor.

Both visors have the same size and shape.

Manufacturer: 3M Svenska AB

Pictures of the product are on page 3

## 3. Adequacy and validity of the technical documentation

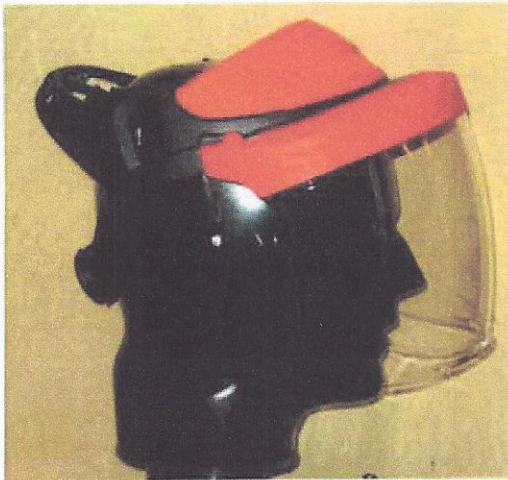
The documentation supplied by the applicant is listed in Appendix 1. The technical documentation is considered adequate and valid. The product has been tested in accordance with a harmonized European standards EN 166:2001 and EN 170:2001 by accredited testing methods. The model of the product supplied by the applicant conforms to the technical documentation.

## 4. Compliance with basic health and safety requirements

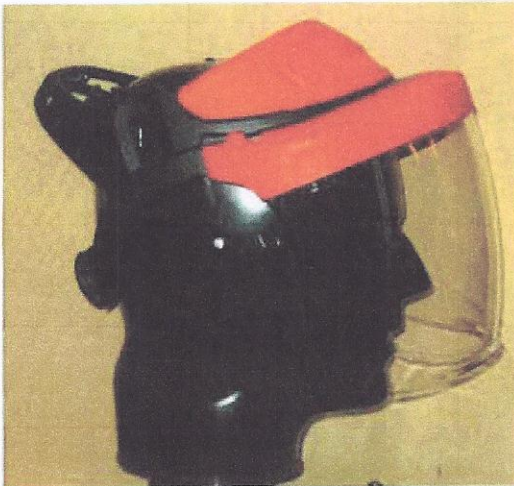
The product and the technical documentation relating to it comply with the relevant basic health and safety requirements stated in Directive 89/686/EEC Annex II as amended, last amended by 96/58/EC (in Finland VNP 1406/93 Liite 1).

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 5F-1 on G500 headgear



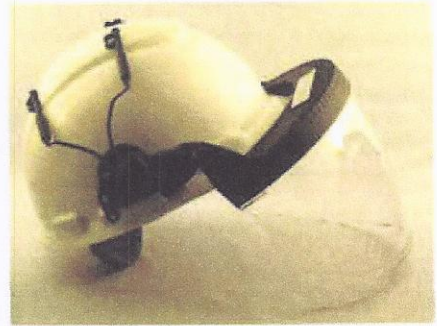
Model 5F-2 on G500 headgear



3M/Peltor G3000



3M/Peltor G22



3M H-700

Model 5F-1 mounted on Model V5 helmet link system and attached to 3 different helmets

End of EC type examination certificate 11175LKS01.





**Technical and other documentation regarding EC type examination certificate  
11175LKS01**

Product name: 5F-1 and 5F-2 visors

Applicant: 3M Svenska AB

<i>Item of technical documentation</i>	<i>Document identification</i>	<i>Assessment</i>
1. Application for the EC type examination	Nermin Jusufović, 2011-07-08	Contains adequate information
2. Product drawing, construction, and material list	P090349, Rev b.01, 2009-11-12 P100539, Rev a.05, 2010-07-06 P110133, Rev a.00, 2011-04-04 P110201, Rev a.00, 2011-04-21 P110202, Rev a.01, 2011-06-08 P110339, Rev a.00, 2011-07-04	The product and materials are identified
3. Compliance with Directive 89/686/EEC relevant basic requirements	The compliance assessment is based on reports mentioned below items 3.1-3.5	
3.1 FIOH assessment of relevant Directive basic requirements	2011-07-08	The applied harmonised standards EN 166:2001 and EN 170:2001 support the relevant requirements
3.2 FIOH test report	162684T01, 2011-05-23 162684T02, 2011-06-23 162684T04, 2011-06-29	The product fulfils the requirements
3.3 CIOP test report	<i>This will be updated after the receipt of the final report from CIOP</i>	The product fulfils the requirements
3.4 Draft information sheet	Appendix to the application	Adequate
3.5 Product markings	On the drawings and samples	Adequate
4. Description of the production quality system and related product control and test facilities	Quality assurance for Face-shield according to EN 166 and EN 172, P950896 ver.a, 2011-06-22	Adequate for category II products

End of documentation list





Finnish Institute of  
Occupational Health

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

# EC TYPE EXAMINATION CERTIFICATE EXTENSION

23199JPS05rev

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, 13 May 2009

Helena Mäkinen  
Team Leader

Eero Korhonen  
Senior Advisor

This certificate comprises 2 pages and two appendixes. This certificate extension supersedes  
certificate extension 23199JPS05, 2009-02-16

Finnish Institute of Occupational Health, Work Environment Development, Protection and Product Safety,  
Notified Body No. 0403,  
Topeliuksenkatu 41 a A, FI-00250 Helsinki, Finland





## 1. Applicant

3M Svenska AB  
Malmstengatan 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\*

Manufacturer: 3M Svenska AB

## 3 Alterations to the original product (EC type examination certificate no. 23199S01)

The secondary sets with the helmets Protector Style 300 are added. The Style 300 covers the following helmets: HC300EL, HC300VEL, HC311, HC311V, HC300SB, HC300VSB, HC315EL, HC315VEL, HC305SB and HC305VSB.

## 4 Adequacy and validity of the technical documentation

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

The documents referred to and assessment in EC type examination certificate 23199S01 do apply. The modification of the product is documented adequately. No acoustical testing is needed.

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

Appendix 2. List of possible helmet combinations

End of EC type examination certificate.



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

Product name: Peltor H31 Optime I, II and III with industrial safety helmets

Applicant: 3M Svenska AB

<i>Item of documentation</i>	<i>Document identification</i>	<i>Remarks</i>
1. Application for the EC type examination	Dated 2002-02-08 2006-03-09 2006-07-25 2007-07-20 2009-02-09	Adequate
2. Product drawing, construction, and material list	P010445, 2002-02-07 P010449, 2002-02-07 P010441, 2002-02-07 P950220, 2002-02-07	The products and materials are identified
3. 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	2009-05-09, Eero Korhonen	The applied harmonised standard EN 352-3:2002 supports the relevant requirements
3.2 FIOH test reports	95086T01 95484T01 20084T01, 1999-03-21 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	The product fulfils the requirements of EN 352-3:2002
3.3 Draft information sheet	FP3024	Adequate
3.4 Product markings	P950224 P010461 P010464 P010466	Adequate
4. Description of the production quality system and related product control and test facilities	Quality assurance, PO40358	Contains adequate information

End of documentation list.





Table 1. List of possible helmet combinations (S=small size, N=normal size, L=large size)

Helmet manufacturer	Helmet model	Wedge	H31	H510	H520	H540
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	H	SNL	SNL	SNL	SNL
Centurion	1100/ARCO type 2	H	SNL	SNL	SNL	NL
Centurion	1540/ARCO	A	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
Peltor	G2000	K,E	SNL	SNL	SNL	SNL
Peltor	G22 (BASIC SET)	E	SNL	SNL	SNL	SNL
Peltor	G3000	E	SNL	SNL	SNL	SNL
Petzl	Vertex	E	SNL	SNL	SNL	SNL
Protector	Style 300	E	SNL	SNL	SNL	SNL
Protector	Style 600	G	SNL	SNL	SNL	SNL
Protector	Tuffmaster II	E, G	NL	NL	NL	NL
Römer	Bravo 2 Nomaz	B	SNL	SNL	SNL	SNL
Römer	Marcus Top 2 Atlas Nomaz	B	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	B	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	B	SNL	SNL	SNL	SNL
Schuberth	PIONIER	B	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





<b>Voss</b>	Inap Master	E	NL	NL	NL	NL
<b>Voss</b>	Inap Star	E	NL	NL	NL	NL
<b>Voss</b>	Inap PCG	G	NL	NL	NL	NL





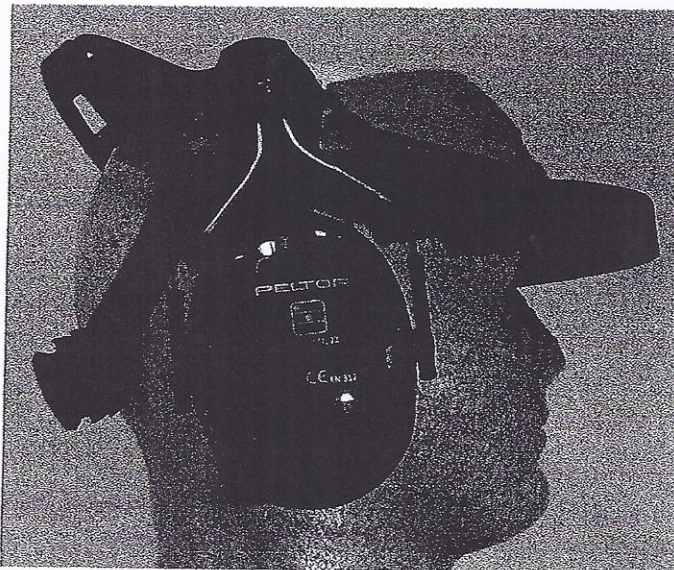
## Testing of Hearing Protectors

Test item: **Hearing protector Optime II (H520P3E) mounted on G500 Headgear**


Type: **Hearing protector as supplementary combination attached to G500 Headgear**

Customer: **3 M Svenska AB  
Box 2341  
33102 Värnamo  
Sweden**

Applied methods: **EN 352 - 3:2002, Clauses 4.3.2 - 4.3.4.**



  
Anna Ruhala  
Research Scientist

  
Asta Tohv  
Research Assistant



This report shall not be reproduced except in full without the written approval of the Finnish Institute of Occupational Health. The testing is valid only for the tested items. Tests marked as "Not FINAS accredited" in this report are not included in the FINAS Accreditation field for T013 testing laboratory.



## 1. Description and identification of test items

Six pairs of Optime II (H520P3E) hearing protectors and six G500 Headgear samples were supplied by the manufacturer on 19 Oct, 2009. Test items were intact.

## 2. Testing

Tests were performed during 19 - 23 October, 2009 in the testing laboratories of Protection and Product Safety Team of Finnish Institute of Occupational Health. Testing was done according to the methods described in standard EN 352-3:2002 Clauses 4.3.2 - 4.3.4.

## 3. Test results

### 3.1 Sizing and adjustability (EN 352-3, Clause 4.3.2)

Six pairs of Optime II (H520P3E) hearing protectors were measured with G500 Headgear for small, medium and large size ranges.

Test Height mm	Width mm		
	125 (51 cm)	145 (57 cm)	155 (61 cm)
115	S	S/M	-
130	S/M	S/M/L	M/L
140	-	M/L	L

Test Height mm	Width mm		
	125	145	155
115	OK	OK	-
130	OK	OK	OK
140	-	OK	OK

The combination of G500 Headgear and Optime II (H520P3E) is compatible for small, medium and large sizes.

### 3.2 Cup Rotation

Cup rotation was measured from six specimens. The ability of the cups to accommodate a range of angular movements was tested for small, medium and large sizes. The contact between the cushions of the specimens and the plates was continuous throughout the range.





### 3.3 Headband force (EN 352-3, Clause 4.3.4)

Headband force for the supplementary combination was measured with G500 Headgear.

Specimen number	Headband force (N)		
	Small	Medium	Large
1	8.7	10.3	10.8
2	8.5	10.5	10.9
3	8.7	10.6	10.9
4	9.1	10.9	11.1
5	8.7	10.5	10.9
6	8.7	10.2	11.0
Average	8.7	10.5	10.9

Headband forces for the supplementary combination were compared to those of the basic helmet Peltor G22 with protector Optime II (H520P3E) (for more details, see FIOH test report 21361T01) and they are as follows: Small 7.6 N, Medium 8.2 N and Large 8.9 N.

Headband force of the specimens of supplementary combination shall be no less than 20% of the value of the basic combination set.

### 4. Summary of the test results

Test items fulfil the requirements for all size ranges S, M and L as described in standards EN 352-3:2002 Clauses 4.3.2., 4.3.3. and 4.3.4. The results are valid also for Optime I (H510P3E), Optime III (H540P3E) and H31P3\*E.

**End of test report No 29453T01**



March 7, 2012



# Declaration of Conformity

3M SVENSKA AB DECLARES THAT THE EQUIPMENT DESCRIBED HEREAFTER IS IN CONFORMITY WITH THE FOLLOWING EUROPEAN DIRECTIVES.

3M SVENSKA AB DECLARA QUE EL EQUIPO DESCRITO ABAJO CUMPLE CON LAS DISPOSICIONES DE LAS SIGUIENTES DIRECTIVAS EUROPEAS

*Type of product/model:* HEADGEAR G500 STIHL, G500V5FH310R 947

*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: EN166:2001, EN170:2001, EN352-3:2002.

This equipment is identical to the PPE which is subject of EC certificate of conformity No. 11175LKS01, 23199JPS06 issued by Finnish Institute of Occupational Health.

(ES) La Directiva EPI se aplica a equipos de protección individual.

Este equipo está fabricado de conformidad con la Directiva del Consejo 89/686/EEC y, cuando corresponde, con la norma nacional correspondiente a la(s) norma(s) armonizada(s) mín.: EN166:2001, EN170:2001, EN352-3:2002.

Este equipo es idéntico al EPI sujeto del certificado de conformidad CE número 11175LKS01, 23199JPS06 expedido por Finnish Institute of Occupational Health.

## Notified bodies

Finnish Institute of Occupational Health, Topeliuksenkatu 41 a A, FI-00250, Helsinki, Finland



March 7, 2012



A handwritten signature in black ink, appearing to read 'Sigvard Nilsson'.

Värnamo, 2012-02-24

***Place and date***

Sigvard Nilsson, Development Manager  
***Name and function of the signatory***



07. März 2012



# Konformitätserklärung

3M SVENSKA AB erklärt hiermit, dass die nachstehend beschriebene Ausrüstung mit den folgenden europäischen Richtlinien übereinstimmt.

**Produkttyp/Modell: GESICHTSSCHUTZ- UIND GEHÖRSCHUTZ-KOMBINATION G500 STIHL, G500V5FH310R 947**

*Name des Herstellers:* 3M Occup Health and Env Safety

*Adresse:* ul. Kowalska 143, 51-424, Wroclaw, Poland

*Telefon:* +48 71 395 9710 *Telefax No:* +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 **EN166:2001**, **EN170:2001**, **EN352-3:2002** umsetzen.

Diese Ausrüstung ist identisch mit der PSA, für die die EWG-Übereinstimmungsbescheinigung (Certificate of Conformity) Nr. **11175LKS01**, **23199JPS06** gilt, ausgestellt vom **Finnish Institute of Occupational Health**.

## Benannte Stelle

Finnish Institute of Occupational Health, Topeliuksenkatu 41 a A, FI-00250, Helsinki, Finland

Värnamo, 24.02.2012

**Ort und Datum**

*Sigvard Nilsson, Entwicklungsleiter*

**Name und Funktion des Unterzeichners**



07 mars 2012



## Déclaration de conformité

3M SVENSKA AB déclare que l'équipement décrit ci-après est conforme aux directives européennes suivantes.

Type de produit/modèle: **CASQUE G500 STIHL, G500V5FH310R 947**

Nom du fabricant: 3M Occup Health and Env Safety

Adresse: ul. Kowalska 143, 51-424, Wroclaw, Poland

Téléphone: +48 71 395 9710 Telefax No: +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°: **EN166:2001, EN170:2001, EN352-3:2002**.

Cet équipement est identique à l'EPI qui est soumis au certificat CE n° **11175LKS01, 23199JPS06** émis par l'Institut Finlandais de la Santé au Travail (Finnish Institute of Occupational Health).

### Organismes avisés

Finnish Institute of Occupational Health, Topeliuksenkatu 41 a A, FI-00250, Helsinki, Finland

Värnamo le, 24/02/2012

**Lieu et date**

Sigvard Nilsson, Directeur du Développement

**Nom et fonction du signataire**