



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

EC TYPE EXAMINATION CERTIFICATE

27214IDS04rev1

for earmuff type hearing protectors attached to industrial safety
helmets as defined in EN 352-3:2002

MSA left/RIGHT LOW Type 2 helmet mounted
MSA left/RIGHT MEDIUM Type 2 helmet mounted
MSA left/RIGHT HIGH Type 2 helmet mounted

MSA Sordin AB
Värnamo
Sweden

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

Helsinki, 28 October 2016
Expiry date: 27 October 2021

Erja Tammela
Senior Specialist

Mikko Hirvonen
Research Scientist



1. Applicant

MSA Sordin AB
Rörläggarvägen 8
33151 Värnamo
Sweden

2. Description and identification of the products

Type: Hearing protectors attached to industrial safety helmets, Björnkläder Balance AC as the basic set with adapter Type 1 and supplementary combinations as listed in Appendix 2.

Name: MSA left/RIGHT LOW Type 2 helmet mounted
MSA left/RIGHT MEDIUM Type 2 helmet mounted
MSA left/RIGHT HIGH Type 2 helmet mounted

Description: Cup sizes and sound attenuation values increase from low to high analogous to the names of the products.

Size range: Small, medium and large for each of the products.
Size range for supplementary combinations can be seen from the table in Appendix 2.

Manufacturer: MSA Sordin AB

Pictures of the products 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 products have 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.

4. Compliance with basic health and safety requirements

The products and the technical documentation relating to them 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 these type examined products must be brought to the attention of FIOH.

Appendix 1. Documentation

Appendix 2. List of the Basic and supplementary helmet combinations



Pictures of the products:



MSA left/RIGHT LOW Type 2 helmet mounted



MSA left/RIGHT MEDIUM Type 2 helmet mounted



MSA left/RIGHT HIGH Type 2 helmet mounted

End of EC type examination certificate.



**Technical and other documentation regarding EC type examination certificate
27214IDS04rev1**

Product name: MSA left/RIGHT LOW/MEDIUM/HIGH Type 2 helmet mounted
Applicant: MSA Sordin AB

<i>Item of documentation</i>	<i>Document identification</i>	<i>Remarks</i>
1. Application for the EC type examination	2010-02-23, Anders Roos 2015-06-17, Guillaume Andre	Adequate
2. Product drawing, construction list of the product and materials used	Product drawings and materials: Type 2 Low in S0401-TYPE2-LOW, 2007-03-04 Type 2 Medium in S0401-TYPE2-MED, 2007-03-04 Type 2 High in S0401-TYPE2-HIGH, 2007-03-04	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	2010-08-26 2016-10-28	The applied harmonised standard EN 352-3:2002 supports the relevant requirements
3.2 FIOH test reports	Basic Combinations (Balance AC helmet): Type 2 Low, 27214T01, 2007-07-30 Type 2 Medium, 27215T01, 2007-07-30 Type 2 High, 27216T01, 2007-07-30 Supplementary combinations: 27330T01, 2007-08-17 28044T01, 2008-04-21 29173T01, 2009-07-20 10206T01, 2010-07-06 213444T01, 2013-01-18 322470T01, 2016-01-11	The products fulfil the requirements of EN 352-3:2002
3.3 Draft information sheet	LeftRIGHT passive manual - English with V-Gard 900 - 20161026 rev1	Document meets the requirements of Directive 89/686/EEC and EN 352-3:2002
3.4 Product markings	On product and also in technical drawings: Type 2 Low in S0401-TYPE2-LOW, 2007-03-04 Type 2 Medium in S0401-TYPE2-MED, 2007-03-04 Type 2 High in S0401-TYPE2-HIGH, 2007-03-04 Markings.jpg, e-mail 2013-02-22	Markings meet the requirements of EN 352-3:2002
4. Description of the production quality system and related product control and test facilities	Quality Assurance by Håkan Davidsson, 2015-02-12	Adequate for category II products

End of documentation list.



List of the basic and supplementary helmet combinations

The basic combination for MSA left/RIGHT LOW/MEDIUM/HIGH Type 2 helmet mounted is with industrial safety helmet Björnkläder Balance AC with adapter Type 1.

Supplementary combinations (S = small, M = medium, L = large):

Helmet model	Adapter Type No.	Left/RIGHT			Test report
		Low	Medium	High	
MSA Linesman	14	SML	SML	SML	27330T01, 2007-08-17
MSA Super V-GARD II	14	SML	SML	SML	27330T01, 2007-08-17
MSA Thermalgard	14	SML	SML	SML	28044T01, 2008-04-21
MSA Topgard	14	SML	SML	SML	28044T01, 2008-04-21
MSA V-Gard	14	SML	SML	SML	27330T01, 2007-08-17
MSA V-Gard 200	14	ML	ML	L	213444T01, 2013-01-18
MSA V-Gard 500	14	SML	SML	SML	29173T01, 2009-07-20
MSA V-Gard 520	14	SML	SML	SML	same as MSA V-Gard 500
MSA V-Gard 930 Cap	14	SML	ML	ML	322470T01, 2016-01-11
MSA V-Gard 950 Cap	14	SML	ML	ML	322470T01, 2016-01-11
3M 1465	1	SML	SML	SML	27330T01, 2007-08-17
Auboueix Iris 2	1, 2	SML	SML	SML	28044T01, 2008-04-21 10206T01, 2010-07-06
Björnkläder Balance AC (basic combination)	1	SML	SML	SML	Type 2 Low, 27214T01 Type 2 Medium, 27215T01 Type 2 High, 27216T01
Björnkläder Balance HD	1	SML	SML	SML	28044T01, 2008-04-21
Centurion 1100/1125 Euro	1	SML	SML	SML	28044T01, 2008-04-21
Centurion Concept	7	SML	SML	ML	10206T01, 2010-07-06
Peltor G2000/G2001	1	SML	SML	SML	29173T01, 2009-07-20
Peltor G3000/G3001	2	SML	SML	SML	28044T01, 2008-04-21
Protector Style 300	1	SML	SML	SML	28044T01, 2008-04-21
Protector Style 600	2	SML	SML	SML	28044T01, 2008-04-21

End of the basic and supplementary helmet combinations list.