



Finnish Institute of  
Occupational Health

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

# EC TYPE EXAMINATION CERTIFICATE

26548KWS01

for earmuff type hearing protectors with headband or  
helmet attachment

as defined in EN 352-1, EN 352-3,  
EN 352-4, EN352-6, and EN 352-8

**X-TREM Line**

MSA Sordin AB  
Värnamo, Sweden

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

Helsinki, 22 December 2006

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Team Leader

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This certificate comprises 2 pages and an appendix.



**1. Applicant**

Asiakas MSA Sordin AB  
Osoite Rörlägggarvägen 8  
Kaupunki 33153 Värnamo  
Maa Sweden

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

Type: Earmuff type hearing protector with headband or to be attached to a helmet.

Name: X-TREM Line

Size range: Medium and large

Manufacturer: MSA Sordin

Description: This certificate combines earlier certificates and test reports in order to have one single certificate for three different MSA Sordin hearing protectors to be used with F2 X-TREM helmet. The hearing protectors are within different types: Basic Line (certificate 21150S01), Pro Line (21152S02), and WW Line (24343EKS01). Certificate for CutOff X-TREM with helmet F2-XTREM (certificate 26183UPS01) validates the basic combination of the types of hearing protectors with F2-XTREM helmet.

**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 harmonized European standards EN 352-1:1993, EN 352-1:1996, EN 352-3:1993, EN 352-3:1996, EN 352-3:2002, EN 352-4:2001, EN 352-6:2002, and EN 352-8:2003 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. Documentation

End of EC type examination certificate.



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

Product name: X-TREM Line

Applicant: MSA Sordin AB

Item of documentation	Document identification	Remarks
1. Application for the EC type examination	2006-12-22	Contains adequate information
2. Product drawing, construction, and material list	<p><u>CutOff XTREM:</u> S060501-01, 2006-05-03</p> <p><u>Basic Line:</u> S010606, 2001-06-06 S010610, 2001-06-11 S010604, 2001-06-06</p> <p><u>Pro Line:</u> S010612, 2001-06-11 S020708-02, 2002-11-18 S010614, 2001-06-12</p> <p><u>WW Line:</u> S041017-01, 2004-10-20 S041019-01, 2004-10-20 S041019-01, 2004-10-20 S041016-01, 2004-10-20</p>	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-	
3.1 FIOH assessment of relevant Directive basic requirements	2006-12-22	The applied harmonised standards EN 352-1, EN 352-3, EN 352-4, EN 352-6, and EN 352-8 support the relevant requirements
3.2 FIOH test report	<p><u>CutOff X-TREM:</u> 26183T01, 2006-05-31</p> <p><u>Basic Line (CutOff Basic, FM Basic, Listen Only Basic):</u> 21155T02, 2001-10-01 22308T01, 2001-10-01 22308T02, 2001-10-01 21150T02, 2001-10-01 21151T01, 2002-02-22 21151T06, 2003-10-20 21150T03, 2004-03-23 21150T05, 2003-04-11 21151T08, 2003-04-11</p>	<p>Products fulfil the standards:</p> <p>EN 352-3:2002</p> <p>EN 352-4:2001 EN 352-4:2001 EN 352-4:2001 EN 352-1:1993 EN 352-3:1996 EN 352-3:1996 EN 352-1:1993 EN 352-1:1996, EN 352-6:2001 EN 352-3:1996, EN 352-6:2001</p>



<p>3.2 FIOH test report (continues)</p>	<p><u>Pro Line (FM Pro, Dual Pro, Listen Only Pro):</u> 21152T02, 2003-10-21 21152T03, 2001-10-31 21152T04, 2001-10-31 22342T01, 2002-12-31 22343T03, 2002-12-31 21150T04, 2003-02-14 21151T07, 2003-10-31 21151T09, 2003-04-11</p> <p><u>WW Line (WW Headset, WW CutOff, WW FM, WW Dual)</u> 21150T03, 2005-01-26 21151T05, 2005-02-21 21151T08B, 2005-02-21 21155T02B, 2005-01-26 - 22308T01B, 2005-02-21 - 22308T02B, 2005-02-21 - 21152T02B, 2005-01-26 - 21152T03B, 2005-01-26 - 21152T04B, 2005-01-26 - 22343T01B, 2005-01-25 - 22343T03B, 2005-01-26 - 22343T04B, 2005-01-26</p>	<p>EN 352-1:1993 EN 352-3:1996 EN 352-3:1996 EN 352-1:1993, EN 352-4:2001 EN 352-3:1996, EN 352-4:2001 EN 352-1:1993, EN 352-6:2001 EN 352-3:1996, EN 352-6:2001 EN 352-3:1996, EN 352-6:2001</p> <p>EN 352-1:1993, EN 352-8:2003 EN 352-1:1993, EN 352-8:2003 EN 352-1:1993, EN 352-8:2003 EN 352-1:1993, EN 352-4:2001, EN 352-6:2002, EN 352-8:2003 EN 352-1:1993, EN 352-4:2001, EN 352-6:2002, EN 352-8:2003 EN 352-1:1993, EN 352-4:2001, EN 352-6:2002, EN 352-8:2003 EN 352-1:1993, EN 352-6:2002, EN 352-8:2003 EN 352-1:1993, EN 352-6:2002, EN 352-8:2003 EN 352-3:1993, EN 352-6:2002, EN 352-8:2003 EN 352-1:1993, EN 352-4:2001, EN 352-6:2002, EN 352-8:2003 EN 352-3:1993, EN 352-4:2001, EN 352-6:2002, EN 352-8:2003 EN 352-3:1993, EN 352-4:2001, EN 352-6:2002, EN 352-8:2003</p>
<p>3.3 Draft information sheet</p>	<p>PM102-02 PM130-02 PM104-02 PM166-04</p>	<p>Fulfil the requirements</p>
<p>3.4 Product markings</p>		<p>Fulfil the requirements</p>
<p>4. Description of the production quality system and related product control and test facilities</p>	<p>Quality control: S041010-01, 2006-05-04 S041011-02, 2006-05-04 Quality Assurance, 2006-05-04</p>	<p>Fulfils the requirements</p>

End of documentation list