

EU Type Examination Certificate

This is to certify that:

Sordin AB
Rostugnsvägen 17
Vikmanshyttan
776 70
Sweden

Holds Certificate Number:

CE 708877

In respect of:

**Hearing protectors to EN 352-3:2002, EN 352-4:2001+A1:2005, EN 352-6:2002 and EN 352-8:2008 - Industrial safety helmet mounted ear-muffs
Models: left/RIGHT FM Pro, CutOff Pro and CutOff Pro LED Helmet Mounted.**

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):

Previous Notified Body: BSI 0086

First Issued: 2019-06-11

Latest Issue: 2019-09-12



Drs. Dave Hagenaaars, Managing Director

Effective Date: 2019-09-12

Expiry Date: 2024-06-11

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EU Type Examination Certificate

No. CE 708877

Product Specification

Product Type: Hearing protectors – Helmet mounted ear-muffs.

Models: left/RIGHT FM Pro Helmet Mounted
left/RIGHT CutOff Pro Helmet Mounted
left/RIGHT CutOff Pro LED Helmet Mounted.

Technical Specifications: Harmonized European Standard EN 352-3:2002
(see below) Harmonized European Standard EN 352-4:2001+A1:2005
(CutOff Pro and CutOff Pro LED only)
Harmonized European Standard EN 352-6:2002
(FM Pro and CutOff Pro only)
Harmonized European Standard EN 352-8:2008
(FM Pro only).

Product Descriptions: The three models of industrial market orientated headband mounted ear-muffs have foam cushions.
The FM Pro model incorporates a FM radio and an auxiliary input for an external acoustic source, for example communications radio, mobile phone, CD player etc.
The CutOff Pro incorporates electronics for reproduction of ambient sound and an auxiliary input for an external acoustic source, for example communications radio, mobile phone etc.
The CutOff Pro LED incorporates electronics for reproduction of ambient sound and a LED light.

EN 352 classifications: Helmet mounted ear-muffs
(all models) Size ranges are dependent upon Ear-muff/helmet combination, see Table below.

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Product Assessments

The product assessments for the models are based on the following standards:

EN 352-3:2002, hearing protectors – ear-muffs mounted to an industrial safety helmet

Plus

For models CutOff Pro and CutOff Pro LED only:

EN 352-4:2001+A1:2005, hearing protectors – level-dependent ear-muffs

For models FM Pro and CutOff Pro only:

EN 352-6:2002, hearing protectors – ear-muffs with electrical audio input
and

For model FM Pro only:

EN 352-8:2008, hearing protectors – entertainment audio ear-muffs.

EN 352-1

Attenuation values, all models

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	11.7	12.9	16.7	24.7	31.8	30.8	40.1	35.1
Standard Deviation Sf (dB)	3.1	2.7	2.1	3.3	2.4	2.4	2.5	3.1
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	8.6	10.2	14.6	21.4	29.4	28.4	37.6	32.0

High, Medium and Low Frequency Attenuation Values and Single Number Rating

High Frequency Attenuation Value (H)	31 dB
Medium Frequency Attenuation Value (M)	24 dB
Low Frequency Attenuation Value (L)	16 dB
Single Number Rating (SNR)	27 dB

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EN 352-4

Criterion Levels – CutOff Pro and CutOff Pro LED models only

CutOff Pro

High Frequency Sound Pressure Level (H)	118 dB
Medium Frequency Sound Pressure Level (M)	107 dB
Low Frequency Sound Pressure Level (L)	95 dB

CutOff Pro LED

High Frequency Sound Pressure Level (H)	106 dB
Medium Frequency Sound Pressure Level (M)	107 dB
Low Frequency Sound Pressure Level (L)	93 dB

Ear-muff/Helmet Combination details - all models

Helmet Brand	Adaptor Type No.	Approved Sizes
MSA V-Gard	60614	S, M and L
MSA V-Gard 200	60614	M and L
MSA V-Gard 500, 520	60614	S, M and L
MSA V-Gard 930, 950	60614	M and L
Balance AC	60601	S, M and L
Balance HD	60601	S, M and L

(cont)

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Ear-muff/Helmet Combination details - all ear-muff models (cont)

Helmet Brand	Adaptor Type No.	Approved Sizes
Iris II	60601 and 60602	S, M and L
Protector Style 600	60602	S, M and L
Protector Style 300	60601	S, M and L
Protector Style 600	60602	S, M and L
Peltor G2000/G2001	60601	S, M and L
Peltor G3000/G3001	60602	S, M and L

Certificate Administration Details

Technical File References:

Product	Technical File
left/RIGHT FM Pro Helmet	left/RIGHT FM Pro Helmet Technical File
left/RIGHT CutOff Pro Helmet	left/RIGHT CutOff Pro Helmet Technical File
left/RIGHT CutOff Pro LED Helmet.	left/RIGHT CutOff Pro LED Helmet Technical File.

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
June 2019	First issue under PPE Regulation (EU) 2016/425.	0086:19:9749108

Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type Based on Quality Assurance of the Production Process, Annex VIII (Module D), as referenced on BSI issued Certificate CE 708855.

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