

EU Type Examination Certificate

This is to certify that:

Sordin AB
Rostugnsvägen 17
Vikmanshyttan
776 70
Sweden

Holds Certificate Number:

CE 708876

In respect of:

**Hearing protectors to EN 352-1:2002, EN 352-4:2001+A1:2005, EN 352-6:2002 and EN 352-8:2008 - Headband mounted ear-muffs
Models: left/RIGHT FM Pro, CutOff Pro and CutOff Pro LED Headband.**

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

Page: 1 of 6



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EU Type Examination Certificate

No. CE 708876

Product Specification

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

Models: left/RIGHT FM Pro Headband
left/RIGHT CutOff Pro Headband
left/RIGHT CutOff Pro LED Headband.

Technical Specifications: Harmonized European Standard: EN 352-1:2002
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: Over-the-head ear-muff
(all models) All models are in the Small, Medium and Large size ranges.

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Page: 2 of 6

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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)	13.8	10.5	16.4	25.4	32.8	30.5	39.6	37.7
Standard Deviation Sf (dB)	3.7	2.6	2.5	2.5	1.8	2.3	2.3	3.0
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	10.1	7.9	13.9	22.9	31.0	28.2	37.3	34.7

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)	15 dB
Single Number Rating (SNR)	27 dB

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Page: 3 of 6

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EN 352-4

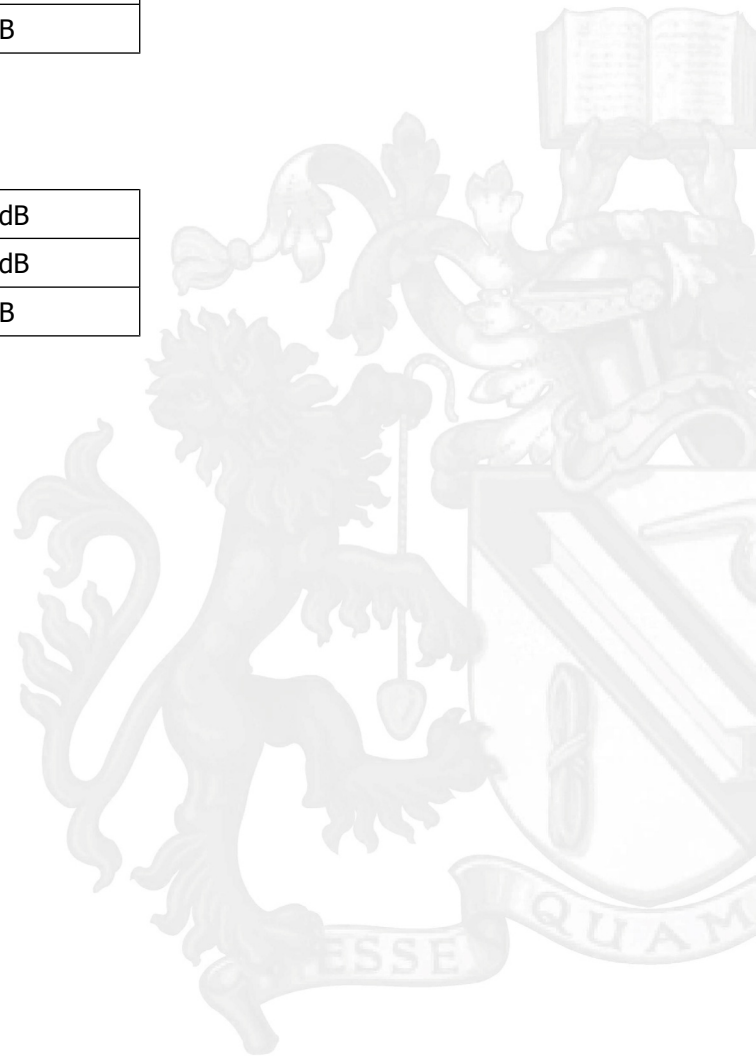
Criterion Levels – CutOff Pro and CutOff Pro LED only

CutOff Pro

High Frequency Sound Pressure Level (H)	116 dB
Medium Frequency Sound Pressure Level (M)	108 dB
Low Frequency Sound Pressure Level (L)	95 dB

Criterion Levels – 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



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Page: 4 of 6

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Certificate Administration Details

Technical File References:

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

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
June 2019	First issue under PPE Regulation (EU) 2016/425.	0086:19:9749105

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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Location

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Certified Activities

Hearing protectors to EN 352-1:2002, EN 352-4:2001+A1:2005, EN 352-6:2002 and EN 352-8:2008 - Headband mounted ear-muffs
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Page: 6 of 6

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