

# EU Type Examination Certificate

This is to certify that:

Sordin AB  
Rostugnsvägen 17  
Vikmanshyttan  
776 70  
Sweden

Holds Certificate Number:

CE 708870

In respect of:

**Hearing protectors to EN 352-3:2002 -  
Industrial safety helmet mounted ear-muffs  
Models: XLS, EXC and HPE Helmet Mounted.**

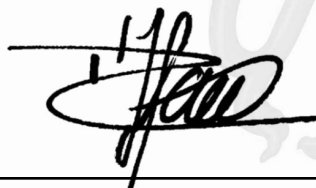
on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements 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: 2019-07-22

Latest Issue: 2019-09-12



Drs. Dave Hagenaaars, Managing Director

Effective Date: 2019-09-12

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# EU Type Examination Certificate

No. CE 708870

## Product Specification

**Product Type:** Hearing protectors – ear-muffs attached to an industrial safety helmet.

**Models:** EXC-2 Helmet Mounted  
EXC-2B Helmet Mounted  
HPE-2 Helmet Mounted  
HPE-2B Helmet Mounted  
XLS-2 Helmet Mounted.

**Technical Specifications:** Harmonized European Standard: EN 352-3:2002.

**Product Descriptions:** The three model ranges of industrial market orientated industrial safety helmet mounted ear-muffs are fitted with foam ear cushions. The only difference between the base model and the B version in 2 of the ranges is the type of ear cushion.

**EN 352 classifications:** See Ear-muff/Helmet Combination details for each model.  
(all models)

## Product Assessments

The product assessments were based on EN 352-3:2002, hearing protectors – ear-muffs attached to an industrial safety helmet.

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## EXC-2 model:

### Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	11.1	18.1	25.1	27.0	28.6	38.6	40.2
Standard Deviation Sf (dB)	3.2	3.3	3.1	2.3	2.4	2.6	3.3
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	7.9	14.8	22.0	24.7	26.2	36.0	36.9

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

High Frequency Attenuation Value (H)	29 dB
Medium Frequency Attenuation Value (M)	23 dB
Low Frequency Attenuation Value (L)	15 dB
Single Number Rating (SNR)	26 dB

### Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes	Helmet Brand	Adaptor Type No.	Approved Sizes
Balance AC	17	M and L	MSA V-Gard 500	14	S, M and L
Grolls Balance AC	1	M and L	MSA V-Gard 520	14	S, M and L
Protector Tuffmaster II	1	M and L	Petzl Alveo Vent	1	M and L

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## EXC-2B Model:

### Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	18.1	20.3	24.9	32.0	31.4	37.2	37.5
Standard Deviation Sf (dB)	2.8	2.3	1.9	3.0	2.1	2.2	3.5
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	15.3	18.0	23.0	29.0	29.3	35.0	34.0

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

High Frequency Attenuation Value (H)	31 dB
Medium Frequency Attenuation Value (M)	26 dB
Low Frequency Attenuation Value (L)	20 dB
Single Number Rating (SNR)	29 dB

### Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes
Grolls Balance AC	1	M and L

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**HPE-2 model:**

## Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	19.7	23.5	28.0	33.9	32.7	39.2	40.7
Standard Deviation Sf (dB)	3.3	2.9	2.9	2.8	2.8	3.7	3.7
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	16.4	20.7	25.1	31.1	29.9	35.5	37.0

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

High Frequency Attenuation Value (H)	32 dB
Medium Frequency Attenuation Value (M)	28 dB
Low Frequency Attenuation Value (L)	22 dB
Single Number Rating (SNR)	31 dB

## Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes	Helmet Brand	Adaptor Type No.	Approved Sizes
Auboueix IRIS II	2	L	MSA V-Gard 200	14	S, M and L
Balance AC	17	S, M and L	MSA V-Gard 500	14	S, M and L
Grolls Balance HD	1	S, M and L	MSA V-Gard 910	17	S, M and L
Protector Style 300	1	S, M and L	MSA V-Gard 930	17	S, M and L
Protector Style 600	3	S, M and L	MSA V-Gard 950	17	S, M and L
Protector Tuffmaster II	1	L	MSA F2-Xtrem	15	L
3M G3001	2	L	MSA Thermalgard	17	S, M and L
MSA V-Gard	17	S, M and L			

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## HPE-2B model:

### Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	20.0	23.8	28.9	34.1	33.9	36.2	36.7
Standard Deviation Sf (dB)	3.3	2.8	2.9	3.1	3.0	2.5	2.4
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	16.7	21.0	26.0	31.0	30.9	33.7	34.3

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

High Frequency Attenuation Value (H)	32 dB
Medium Frequency Attenuation Value (M)	29 dB
Low Frequency Attenuation Value (L)	23 dB
Single Number Rating (SNR)	31 dB

### Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes
Grolls Balance HD	1	L

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## XLS-2 Model:

### Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	15.5	18.9	25.5	29.8	32.4	38.6	39.5
Standard Deviation Sf (dB)	3.5	3.1	3.4	2.2	3.8	3.0	4.6
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	12.0	15.8	22.1	27.6	28.6	35.6	34.9

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

High Frequency Attenuation Value (H)	31 dB
Medium Frequency Attenuation Value (M)	25 dB
Low Frequency Attenuation Value (L)	18 dB
Single Number Rating (SNR)	27 dB

### Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes	Helmet Brand	Adaptor Type No.	Approved Sizes
Grolls Balance AC	1	M and L	MSA V-Gard	14	S, M and L
JSP Invincible Mk II	18	L	MSA V-Gard 500	14	S, M and L
JSP Mk II	1	M and L			

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## Certificate Administration Details

### Technical File References:

Product	Technical File
EXC-2 Helmet Mounted	EXC-2 Helmet Mounted Technical File
EXC-2B Helmet Mounted	EXC-2B Helmet Mounted Technical File
HPE-2 Helmet Mounted	HPE-2 Helmet Mounted Technical File
HPE-2B Helmet Mounted	HPE-2B Helmet Mounted Technical File
XLS-2 Helmet Mounted.	XLS-2 Helmet Mounted Technical File.

### Certificate Amendment Record:

Issue date	Comments	BSI Review No.
July 2019	First issue under PPE Regulation (EU) 2016/425.	0086:19:9749078

### 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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776 70  
Sweden

## Certified Activities

Hearing protectors to EN 352-3:2002 -  
Industrial safety helmet mounted ear-muffs  
Models: XLS, EXC and HPE Helmet Mounted.



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