

EU Type Examination Certificate

This is to certify that:

Sordin AB
Rostugnsvägen 17
Vikmanshyttan
776 70
Sweden

Holds Certificate Number:

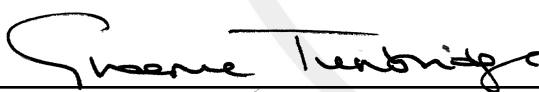
CE 708870

In respect of:

**Hearing protectors to EN 352-3:2020 -
Ear-muffs attached to head protection
Models: See continuation pages**

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):



Graeme Tunbridge, Senior Vice President Global Regulatory & Quality

First Issued: 2019-07-22

Latest Issue: 2025-02-12

Effective Date: 2025-02-12

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EU Type Examination Certificate

No. CE 708870

Product Specification

Product Type: Hearing protectors – ear-muffs attached to head protection.

Models: EXC-2 Helmet Mounted
HPE-2 Helmet Mounted
XLS-2 Helmet Mounted.
Seal-M-2 Helmet Mounted

Technical Specifications: Standard: EN 352-3:2020.

Product Descriptions: These four industrial market orientated, industrial safety helmet mounted ear-muffs are fitted with foam ear cushions.

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

Product Assessments

The product assessments were based on EN 352-3:2020, hearing protectors – ear-muffs attached to head protection and/or face protection devices.

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EXC-2 model:

EN 352-3:2020 - Attenuation values

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	15.5	15.5	20.2	28.0	31.5	35.1	36.7	38.8
Standard Deviation (dB)	4.6	2.2	2.1	2.8	2.0	2.8	3.1	3.5
APV (dB)	10.9	13.3	18.2	25.2	29.6	32.3	33.6	35.4

SNR_m: 31.2

H_m: 35.2

M_m: 28.8

L_m: 22.1

SNR_s: 1.0

H_s: 1.6

M_s: 1.0

L_s: 1.6

SNR (dB): 30

H: 34dB

M: 28dB

L: 20dB

Weight : 208g

Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes	Helmet Brand	Adaptor Type No.	Approved Sizes
Petzl Vertex Vent	21	S, M and L	KASK Primero	20	S, M and L
Kask Zenith X PL	20	S, M and L	KASK Superplasma AQ	20	S, M and L
Kask Zenith X Air	20	S, M and L	MSA V-Gard 500	14	S, M and L
MSA V-Gard 200	14	S, M and L	MSA V-Gard	14	S, M and L
MSA V-Gard 930/950	14	M and L	Kask Quantum	20	S, M and L

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HPE-2 model:

EN 352-3:2020 - Attenuation values

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	19.1	20.1	22.4	27.9	34.7	33.2	39.1	40.5
Standard Deviation (dB)	3.8	2.9	2.2	3.0	2.3	3.1	2.9	3.2
APV (dB)	15.2	17.2	20.1	25.0	32.5	30.1	36.1	37.3

SNR_m: 32.8

SNR_s: 2.0

SNR (dB): 31

H_m: 35.3

H_s: 2.7

H: 33dB

M_m: 30.6

M_s: 2.0

M: 29dB

L_m: 24.9

L_s: 2.0

L: 23dB

Weight : 233g

Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes	Helmet Brand	Adaptor Type No.	Approved Sizes
3M SecureFit X5500	16	S, M and L	KASK Superplasma AQ	20	S, M and L
Schuberth BOP (size 2)	14	S, M and L	MSA V-Gard 500	17	S, M and L
Schuberth BOP S Pro (size 2)	14	S, M and L	MSA V-Gard	17	S, M and L
Schuberth BEN (size 2)	14	S, M and L	MSA V-Gard 200	17	S, M and L
KASK Primero	20	S, M and L	MSA Thermalgard	17	S, M and L
Schuberth Grubenwehrhelm (size 2)	14	S, M and L	Schuberth Hochsteigerhelm (Size 2)	14	S, M and L
Kask Quantum	20	S, M and L	MSA V-Gard H1	20	L only
MSA V-Gard 930/950	17	M and L			

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XLS-2 Model:

EN 352-3:2020 - Attenuation values

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.5	20.2	19.9	29.3	33.3	34.2	37.8	40.6
Standard Deviation (dB)	3.1	2.1	2.5	2.7	2.7	2.4	3.3	2.2
APV (dB)	13.4	18.2	17.4	26.5	30.6	31.8	34.5	38.5

SNR_m: 32.3

SNR_s: 1.7

SNR (dB): 31

H_m: 35.7

H_s: 2.1

H: 34dB

M_m: 29.8

M_s: 1.7

M: 28dB

L_m: 23.6

L_s: 2.0

L: 22dB

Weight : 194g

Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes	Helmet Brand	Adaptor Type No.	Approved Sizes
Petzl Vertex Vent	21	S, M and L	MSA V-Gard 500	14	S, M and L
Kask Zenith X PL	20	S, M and L	MSA V-Gard	14	S, M and L
Kask Zenith X Air	20	S, M and L	MSA V-Gard 200	14	S, M and L
JSP EVO 2	18	S, M and L	MSA V-Gard 930/950	14	S, M and L
MSA V-Gard H1	14	M and L			

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Seal-M-2 Model:

EN 352-3:2020 - Attenuation values

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.2	18.9	20.3	26.3	31.2	33.1	40.3	40.3
Standard Deviation (dB)	3.1	2.4	2.1	2.5	1.8	3.0	3.5	3.6
APV (dB)	15.1	16.5	18.2	23.8	29.4	30.1	36.9	36.6

SNR_m: 31.2

SNR_s: 1.3

SNR (dB): 30

H_m: 34.5

H_s: 1.7

H: 33dB

M_m: 28.6

M_s: 1.4

M: 27dB

L_m: 23.2

L_s: 1.6

L: 22dB

Weight : 233g

Ear-muff/Helmet Combination details

Helmet Brand	Adaptor Type No.	Approved Sizes
Petzl Vertex Vent	21	S, 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
HPE-2 Helmet Mounted	HPE-2 Helmet Mounted Technical File
XLS-2 Helmet Mounted.	XLS-2 Helmet Mounted Technical File.
Seal-M-2 Helmet Mounted	Seal-M-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
July 2024	5 year renewal and reissue with update to Standard EN 352-1:2020 for all models and add model Seal-M-2- Headband. Removal of models EXC-2B and HPE-2B.	2797:24:30122071
February 2025	Addition of the following approved Helmets for models as follows: EXC-2 - KASK Primero, KASK Superplasma AQ, MSA V-Gard 500, MSA V-Gard, MSA V-Gard 200 , MSA V-Gard 930/950 and KASK Quantum. HPE-2 – Schuberth BOP (size 2), Schuberth BOP S Pro (size 2), Schuberth BEN (size 2), KASK Primero, KASK Superplasma AQ, MSA Thermalgard, MSA V-Gard 500, MSA V-Gard, MSA V-Gard 200, MSA V-Gard 930/950, Schuberth Grubenwehrhelm (size 2), Schuberth Hochsteigerhelm (size 2), KASK Quantum and MSA V-Gard H1. XLS-2 - MSA V-Gard 500, MSA V-Gard, MSA V-Gard 200, MSA V-Gard 930/950 and MSA V-Gard H1.	2797:25:30314791

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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