

EU Type Examination Certificate

This is to certify that:

MSA Europe GmbH
Schlussestrasse 12
Rapperswil-Jona
8645
Switzerland

Holds Certificate Number:

CE 715177

In respect of:

**Hearing protectors to EN 352-1:2002 -
Ear-muffs
Models: MSA XLS, EXC and HPE.**

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: 2019-08-02

Latest Issue: 2019-09-12

Drs. Dave Hagenaaars, Managing Director

Effective Date: 2019-09-12

Expiry Date: 2024-08-02

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EU Type Examination Certificate

No. CE 715177

Product Specification

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

Models: MSA EXC-1
MSA HPE-1
MSA XLS-1.

Technical Specifications: Harmonized European Standard: EN 352-1:2002.

Product Descriptions: The three model ranges of industrial market orientated headband mounted ear-muffs are fitted with foam ear cushions.

EN 352 classifications: Over-the-head ear-muff
(all models) The models were in the Small, Medium and Large size ranges.

Product Assessments

The product assessments were based on EN 352-1:2002, hearing protectors – ear-muffs.

MSA EXC-1 model:

Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	11.2	19.1	25.7	29.2	32.0	36.8	39.0
Standard Deviation Sf (dB)	3.2	2.2	2.7	3.1	2.3	2.7	3.7
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	8.0	16.9	23.0	26.1	29.7	34.1	35.3

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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MSA HPE-1 model:

Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	20.6	23.7	29.7	35.0	33.1	39.0	41.7
Standard Deviation Sf (dB)	3.4	1.9	3.0	3.3	3.3	3.0	4.0
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	17.2	21.8	26.7	31.7	29.8	36.0	37.7

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)	32 dB

MSA XLS-1 model:

Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	11.6	17.2	21.7	30.4	29.2	35.4	34.4
Standard Deviation Sf (dB)	3.5	2.7	3.1	3.4	4.2	4.1	4.6
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	8.1	14.5	18.6	27.0	25.0	31.3	29.8

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

High Frequency Attenuation Value (H)	27 dB
Medium Frequency Attenuation Value (M)	22 dB
Low Frequency Attenuation Value (L)	15 dB
Single Number Rating (SNR)	25 dB

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Certificate Administration Details

Product initially Certified as detailed on BSI issued Certificate CE 708869.

Technical File References:

Product	Technical File
MSA EXC-1	MSA EXC-1 Technical File
MSA HPE-1	MSA HPE-1 Technical File
MSA XLS-1.	MSA XLS-1 Technical File.

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
August 2019	First issue under PPE Regulation (EU) 2016/425.	0086:19:3053914

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

Sordin AB
Rostugnsvägen 17
Vikmanshyttan
776 70
Sweden

Certified Activities

Hearing protectors to EN 352-1:2002 -
Ear-muffs
Models: MSA XLS, EXC and HPE.



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