

EU Type Examination Certificate

This is to certify that:

MSA Europe GmbH
Schlüsselstrasse 12
Rapperswil-Jona
8645
Switzerland

Holds Certificate Number:

CE 715178

In respect of:

**Hearing protectors to EN 352-3:2002 -
Ear-muffs attached to an industrial safety helmet
Models: MSA XLS, EXC, HPE and X-trem.**

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 715178

Product Specification

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

Models: MSA EXC-2
MSA HPE-2 and name only variant MSA X-trem
MSA XLS-2.

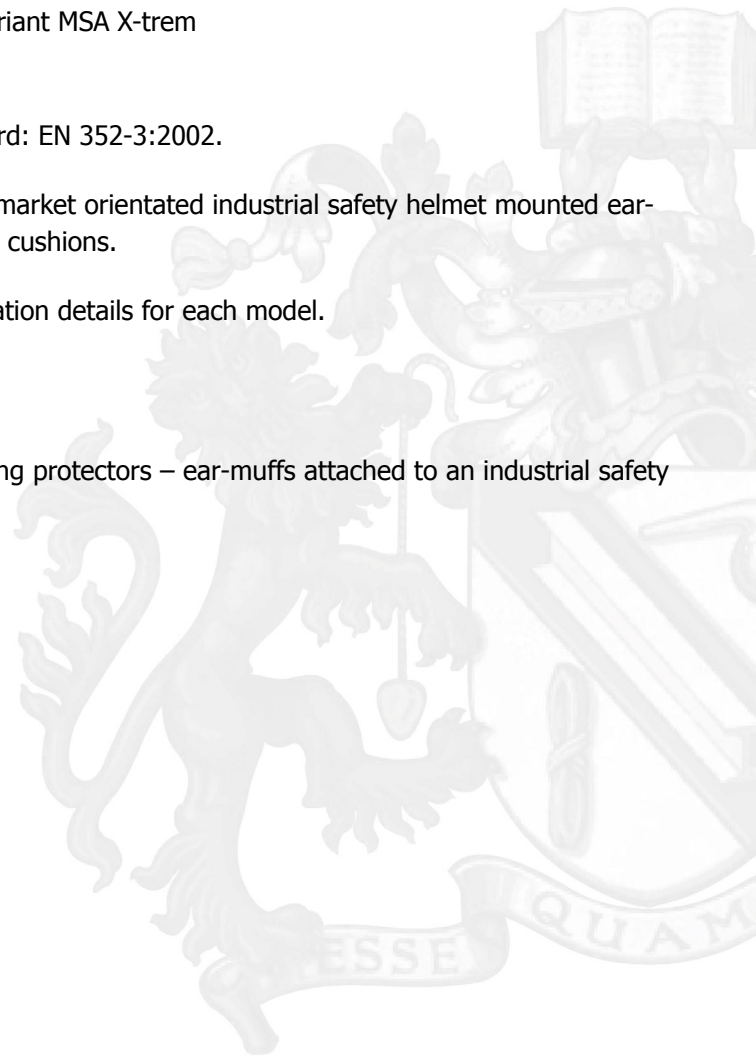
Technical Specifications: Harmonized European Standard: EN 352-3:2002.

Product Descriptions: The four models of 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 352-3:2002, hearing protectors – ear-muffs attached to an industrial safety helmet.



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MSA 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)	3.3	3.3	3.1	2.3	2.4	2.6	3.3
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	7.8	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	Approved Sizes	Helmet Brand	Approved Sizes
Berendsen Safety Balance AC	S, M and L	Protector HC41/HC710	M and L
Berendsen Safety Balance ABS	M and L	MSA Super V-Gard II	L
Protector HC300	S, M and L	MSA Topgard	L
Protector Style 600	S, M and L		

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MSA HPE-2 model:

Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation M_f (dB)	19.7	23.6	28.0	33.9	32.7	39.2	40.7
Standard Deviation S_f (dB)	3.3	2.9	2.9	2.8	2.8	3.7	3.7
Assumed Protection Value APV_f (dB) ($APV_f = M_f - S_f$)	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	Approved Sizes
Berendsen Balance AC	S, M and L
Berendsen Safety Balance AC	S, M and L
Protector HC600	S, M and L

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MSA X-trem model:

Attenuation values

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation M_f (dB)	19.7	23.6	28.0	33.9	32.7	39.2	40.7
Standard Deviation S_f (dB)	3.3	2.9	2.9	2.8	2.8	3.7	3.7
Assumed Protection Value APV_f (dB) ($APV_f = M_f - S_f$)	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	Approved Sizes
MSA Gallet F2 X-trem	L

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MSA 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	Approved Sizes
JSP Mk II	M and L

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Certificate Administration Details

Product initially Certified as detailed on BSI issued Certificate CE 708870.

Technical File References:

Product	Technical File
MSA EXC-2	MSA EXC-2 Technical File
MSA HPE-2	MSA HPE-2 Technical File
MSA X-trem	MSA X-trem Technical File
MSA XLS-2.	MSA XLS-2 Technical File.

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
August 2019	First issue under PPE Regulation (EU) 2016/425.	0086:19:3053915

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

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