

EU Type Examination Certificate

This is to certify that:

MSA Europe GmbH
Schlüsselstrasse 12
Rapperswil-Jona
8645
Switzerland

Holds Certificate Number:

CE 713099

In respect of:

Hearing protectors to EN 352-3:2002
Ear-muffs attached to an industrial safety helmet
Models: left/RIGHT High, Medium and Low 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: 2019-07-03

Latest Issue: 2019-09-12



Drs. Dave Hagenaaars, Managing Director

Effective Date: 2019-09-12

Expiry Date: 2024-07-03

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EU Type Examination Certificate

No. CE 713099

Product Specification

Product Type:	Hearing protectors – Helmet mounted ear-muffs.
Models:	left/RIGHT Low Helmet Mounted left/RIGHT Medium Helmet Mounted left/RIGHT High Helmet Mounted.
Technical Specifications:	Harmonized European Standard: EN 352-3:2002.
Product Descriptions:	The three models of industrial market orientated helmet mounted ear-muffs are fitted with foam ear cushions.
EN 352 classifications: (all models)	Helmet mounted ear-muffs The models are in the Small, Medium and Large size ranges.

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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Attenuation values

left/RIGHT Low

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	10.7	10.6	15.6	22.9	30.3	27.5	31.3	33.0
Standard Deviation Sf (dB)	2.9	1.8	3.6	1.8	3.0	3.0	1.9	3.0
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	7.8	8.8	12.0	21.1	27.3	24.5	29.4	30.0

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

left/RIGHT Medium

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	13.4	13.8	18.8	26.9	34.1	30.9	33.6	37.8
Standard Deviation Sf (dB)	4.1	3.0	3.2	2.1	2.9	4.3	2.5	2.9
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	9.3	10.8	15.6	24.8	31.2	26.6	31.1	34.9

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

High Frequency Attenuation Value (H)	29 dB
Medium Frequency Attenuation Value (M)	25 dB
Low Frequency Attenuation Value (L)	17 dB
Single Number Rating (SNR)	28 dB

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left/RIGHT High

Test Frequency f (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	15.6	16.8	22.1	29.9	35.9	34.1	35.4	39.3
Standard Deviation Sf (dB)	4.1	3.0	2.6	2.7	3.0	4.2	2.5	3.5
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	11.5	13.8	19.5	27.2	32.9	29.9	32.9	35.8

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)	21 dB
Single Number Rating (SNR)	31 dB

Ear-muff/Helmet Combinations

Helmet Brand	Adaptor Type No.	left/RIGHT Low	left/RIGHT Medium	left/RIGHT High
Bjornklader Balance AC	60601	S, M, L	S, M, L	S, M, L
Bjornklader Balance HD	60601	S, M, L	S, M, L	S, M, L
Centurion 1100/1125 Euro	60601	S, M, L	S, M, L	S, M, L
Protector Style 300	60601	S, M, L	S, M, L	S, M, L
3M1465	60601	S, M, L	S, M, L	S, M, L
OBX Iris 2	60601	S, M, L	S, M, L	S, M, L
Peltor G3000/G3001	60602	S, M, L	S, M, L	S, M, L
Protector Style 600	60602	S, M, L	S, M, L	S, M, L
MSA Linesman	60614	S, M, L	S, M, L	S, M, L
MSA Super V-Gard II	60614	S, M, L	S, M, L	S, M, L
MSA Thermalgard	60614	S, M, L	S, M, L	S, M, L
MSA Topgard	60614	S, M, L	S, M, L	S, M, L
MSA V-Gard	60614	S, M, L	S, M, L	S, M, L

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Certificate Administration Details

Product initially Certified as detailed on BSI issued Certificate CE 708884.

Technical File References:

Product	Technical File
Left/RIGHT Low Helmet Mounted Left/RIGHT Medium Helmet Mounted Left/RIGHT High Helmet Mounted.	Left/RIGHT Low Helmet Mounted Technical File Left/RIGHT Medium Helmet Mounted Technical File Left/RIGHT High Helmet Mounted Technical File.

Certificate Amendment Record:

Issue date	Comments	BSI Review No.
July 2019	First issue under PPE Regulation (EU) 2016/425.	0086:19:9789113

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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