

# EU Type Examination Certificate

This is to certify that:

MSA Europe GmbH  
Schlüsselstrasse 12  
Rapperswil-Jona  
8645  
Switzerland

Holds Certificate Number:

CE 713086

In respect of:

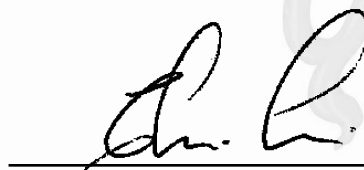
**Hearing protectors to EN 352-1:2002, EN 352-4:2001+A1:2005  
and EN 352-6:2002**

**Ear-muffs**

**Models: Supreme Pro, Pro-X and Pro-X LED Headband.**

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 0086):



Chris Lewis - Certification Director, Product Certification

First Issued: 2019-07-18

Latest Issue: 2019-07-18

Effective Date: 2019-07-18

Expiry Date: 2024-07-18

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# EU Type Examination Certificate

No. CE 713086

## Product Specification

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

**Models:** Supreme Pro Headband  
Supreme Pro-X Headband  
Supreme Pro-X LED Headband.

**Technical Specifications:** Harmonized European Standard: EN 352-1:2002  
Harmonized European Standard: EN 352-4:2001+A1:2005  
Harmonized European Standard: EN 352-6:2002.

**Product Descriptions:** The three models of recreational/leisure market orientated headband mounted ear-muffs incorporate electronics for reproduction of ambient sound and incorporate an input for an external acoustic source, for example communications radio, hunting radio, mobile phone etc.

Supreme Pro  
The water protected earmuffs are fitted with either foam or gel ear cushions.

Supreme Pro-X  
The waterproof earmuffs are fitted with either foam or gel ear cushions.

Supreme Pro-X LED  
The waterproof earmuffs are fitted with gel ear cushions. The earmuffs incorporate a LED light.

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

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BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A member of BSI Group of Companies.

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## Product Assessments

The product assessments were based on the following standards:

EN 352-1:2002, hearing protectors – ear-muffs

EN 352-4:2001+A1:2005, hearing protectors – level-dependent ear-muffs

and

EN 352-6:2002, hearing protectors – ear-muffs with electrical audio input.

## EN 352-1 - Attenuation values, all models

Test Frequency f (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation Mf (dB)	13.5	15.5	23.7	24.1	30.4	36.6	38.6
Standard Deviation Sf (dB)	3.2	1.9	3.9	2.7	3.2	4.4	4.2
Assumed Protection Value APVf (dB) (APVf = Mf-Sf)	10.3	13.6	19.8	21.4	27.2	32.2	34.4

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

High Frequency Attenuation Value (H)	28 dB
Medium Frequency Attenuation Value (M)	21 dB
Low Frequency Attenuation Value (L)	16 dB
Single Number Rating (SNR)	25 dB

## EN 352-4 - Criterion Levels - all models

High Frequency Sound Pressure Level (H)	113 dB
Medium Frequency Sound Pressure Level (M)	104 dB
Low Frequency Sound Pressure Level (L)	91 dB

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## Certificate Administration Details

Product initially Certified as detailed on BSI issued Certificate CE 708669.

## Technical File References:

Product	Technical File
Supreme Pro Headband	Supreme Pro Headband Technical File
Supreme Pro-X Headband	Supreme Pro-X Headband Technical File
Supreme Pro-X LED Headband.	Supreme Pro-X LED Headband Technical File.

## Certificate Amendment Record:

Issue date	Comments	BSI Review No.
July 2019	First issue under PPE Regulation (EU) 2016/425.	0086:19:9789055

## 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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