

# EU Type Examination Certificate

This is to certify that:

Sordin AB  
Rostugnsvägen 17  
Vikmanshyttan  
776 70  
Sweden

Holds Certificate Number:

CE 708669

In respect of:

**Hearing protectors - Headband mounted ear-muffs**  
**Models: Please see continuation sheets**

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):



Denelise L'Ecluse, Managing Director Assurance - Continental Europe

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# EU Type Examination Certificate

No. CE 708669

## 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 352-1:2020  
Harmonized European Standard: EN 352-4:2020  
Harmonized European Standard: EN 352-6:2020

**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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# EU Type Examination Certificate

No. CE 708669

## Product Assessments: Supreme Pro Headband, Supreme Pro-X Headband and Supreme Pro-X LED Headband

The product assessments were based on the following standards:

EN 352-1:2020, hearing protectors – ear-muffs

EN 352-4:2020, hearing protectors – level-dependent ear-muffs

EN 352-6:2020, hearing protectors – ear-muffs with safety related audio input.

### EN 352-1:2020 - Attenuation values PVC Cushions all models

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	15.7	20.1	25.4	30.8	30.1	36.7	36.2
Standard Deviation (dB)	3.8	2.3	2.9	3.5	3.2	2.9	4.0
APV (dB)	11.9	17.8	22.4	27.3	26.9	33.8	32.2

SNR<sub>m</sub>: 29.7

H<sub>m</sub>: 32.1

M<sub>m</sub>: 27.5

L<sub>m</sub>: 21.7

SNR<sub>s</sub>: 2.1

H<sub>s</sub>: 2.7

M<sub>s</sub>: 2.1

L<sub>s</sub>: 2.2

SNR (dB): 28

H: 29dB

M: 25dB

L: 19dB

Weight (PVC Cushions): 314.7g

### EN 352-1:2020 - Attenuation values Gel Cushions all models

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	15.8	19.3	23.1	30.6	29.3	36.7	38
Standard Deviation (dB)	2.9	3.2	2.3	3.4	2.9	3.3	3.5
APV (dB)	12.9	16.1	20.8	27.2	26.4	33.4	34.5

SNR<sub>m</sub>: 28.9

H<sub>m</sub>: 31.6

M<sub>m</sub>: 26.5

L<sub>m</sub>: 21.2

SNR<sub>s</sub>: 2.1

H<sub>s</sub>: 2.7

M<sub>s</sub>: 2.1

L<sub>s</sub>: 2.5

SNR (dB): 27

H: 29dB

M: 24dB

L: 19dB

Weight (Gel Cushions): 376.5g

### EN 352-4:2020 - Criterion Levels all models

High Frequency Sound Pressure Level (H)	111.9 dBA
Medium Frequency Sound Pressure Level (M)	105.1 dBA
Low Frequency Sound Pressure Level (L)	94.1 dBA

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# EU Type Examination Certificate

No. CE 708669

## Product Specification

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

**Models:** Supreme Pro-X 3 Slim Headband  
Supreme Pro-X-3B and 3BB Slim Headband

**Technical Specifications:** Harmonized European Standard: EN 352-1:2020  
Harmonized European Standard: EN 352-4:2020  
Harmonized European Standard: EN 352-6:2020

**Product Descriptions:** These two models of headband mounted ear-muffs incorporate electronics for reproduction of ambient sound. Two external microphones pick up the ambient sound with speaking inside for the hearing protector to reproduce the sound in stereo for the wearer

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

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## Product Assessments Supreme Pro-X 3 Slim Headband

The product assessments were based on the following standards:

- EN 352-1:2020, hearing protectors – ear-muffs
- EN 352-4:2020, hearing protectors – level-dependent ear-muffs
- EN 352-6:2020, hearing protectors – ear-muffs with safety related audio input.

### EN 352-1:2020 - Attenuation values PVC Cushions all models

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.8	20.1	24.7	28.2	27.5	35.7	38.4
Standard Deviation (dB)	2.5	2.7	2.8	2.6	2.5	3.5	2.9
APV (dB)	15.3	17.4	21.9	25.6	25.0	32.2	35.4

**SNR<sub>m</sub>: 29.8**                      **H<sub>m</sub>: 29.8**                      **M<sub>m</sub>:26.6**                      **L<sub>m</sub>:22.4**  
**SNR<sub>s</sub>: 2.0**                      **H<sub>s</sub>:2.2**                      **M<sub>s</sub>:2.1**                      **L<sub>s</sub>:2.2**  
**SNR (dB): 27**                      **H: 28dB**                      **M: 24dB**                      **L: 20dB**

Weight (PVC Cushions): 288.7g

### EN 352-1:2020 - Attenuation values Gel Cushions all models

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.1	18.7	25.6	29.7	29.3	39.2	41.9
Standard Deviation (dB)	2.9	2.8	2.8	2.9	2.4	3.6	3.8
APV (dB)	14.2	15.9	22.9	26.9	26.9	35.5	38.1

**SNR<sub>m</sub>: 29.6**                      **H<sub>m</sub>: 31.9**                      **M<sub>m</sub>:27.1**                      **L<sub>m</sub>:21.7**  
**SNR<sub>s</sub>: 2.1**                      **H<sub>s</sub>:2.4**                      **M<sub>s</sub>:2.2**                      **L<sub>s</sub>:2.5**  
**SNR (dB): 27**                      **H: 30dB**                      **M: 25dB**                      **L: 19dB**

Weight (Gel Cushions): 348.2g

### EN 352-4:2020 - Criterion Levels all models

High Frequency Sound Pressure Level (H)	111.9 dBA
Medium Frequency Sound Pressure Level (M)	105.1 dBA
Low Frequency Sound Pressure Level (L)	94.1 dBA

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# EU Type Examination Certificate

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## Product Assessments Supreme Pro-X3B and 3BB Slim Headband

The product assessments were based on the following standards:

EN 352-1:2020, hearing protectors – ear-muffs

EN 352-4:2020, hearing protectors – level-dependent ear-muffs

EN 352-6:2020, hearing protectors – ear-muffs with safety related audio input.

### EN 352-1:2020 - Attenuation values PVC Cushions Pro-X-3B

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.3	22.2	29.0	34.6	31.2	40.7	38.7
Standard Deviation (dB)	2.5	1.9	2.6	1.9	2.1	3.2	5.0
5.0	15.8	20.3	26.4	32.7	29.1	37.5	33.7

**SNR<sub>m</sub>: 32.3**

**H<sub>m</sub>: 33.7**

**M<sub>m</sub>:30.5**

**L<sub>m</sub>:24.5**

**SNR<sub>s</sub>: 1.3**

**H<sub>s</sub>:1.7**

**M<sub>s</sub>:1.4**

**L<sub>s</sub>:2.0**

**SNR (dB): 31**

**H: 32dB**

**M: 29dB**

**L: 23dB**

**Weight (PVC Cushions): 346.8g**

### EN 352-1:2020 - Attenuation values Gel Cushions Pro-X-3BB

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	16.1	21.0	29.4	34.7	32.5	44.4	43.8
Standard Deviation (dB)	2.3	2.5	2.9	2.3	2.0	4.5	2.0
APV (dB)	13.8	18.5	26.5	32.4	30.4	39.9	41.8

**SNR<sub>m</sub>: 32.9**

**H<sub>m</sub>: 35.4**

**M<sub>m</sub>:30.1**

**L<sub>m</sub>:22.8**

**SNR<sub>s</sub>: 1.6**

**H<sub>s</sub>:1.7**

**M<sub>s</sub>:1.7**

**L<sub>s</sub>:2.0**

**SNR (dB): 31**

**H: 34dB**

**M: 28dB**

**L: 21dB**

**Weight (Gel Cushions): 408.2g**

### EN 352-4:2020 - Criterion Levels all models

<b>High Frequency Sound Pressure Level (H)</b>	111.9 dBA
<b>Medium Frequency Sound Pressure Level (M)</b>	105.1 dBA
<b>Low Frequency Sound Pressure Level (L)</b>	94.1 dBA

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## Certificate Administration Details

### 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
Supreme Pro-X 3 Slim headband	Supreme Pro-X 3 Slim headband Technical file
Supreme Pro-X-3B Slim Headband and Supreme Pro-X-3BB Slim Headband	Supreme Pro-X-3B Slim Headband and Supreme Pro-X-3BB Slim Headband Technical file

### Certificate Amendment Record:

Issue date	Comments	BSI Review No.
May 2019	First issue under PPE Regulation (EU) 2016/425.	0086:19:9749064
March 2024	Addition of Supreme Pro-X-3B Slim Headband and Supreme Pro-X-3BB Slim Headband	2797:24:30120460
June 2024	5 year Certification renewal and update of Standards EN 352-1, EN352-4 and EN 352-6	2797:24:30187517

### 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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