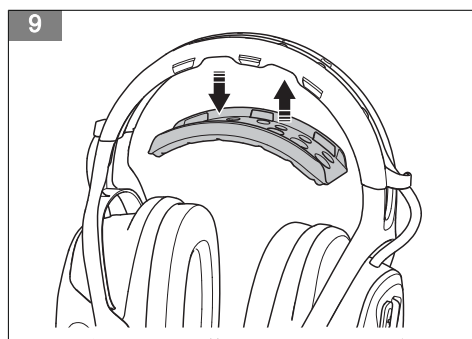
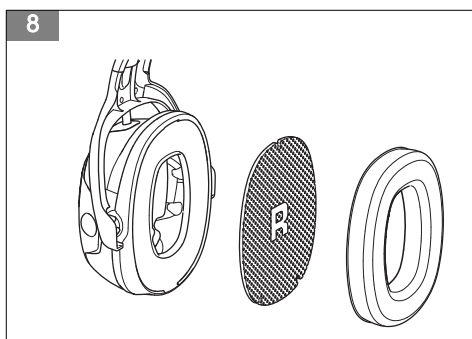
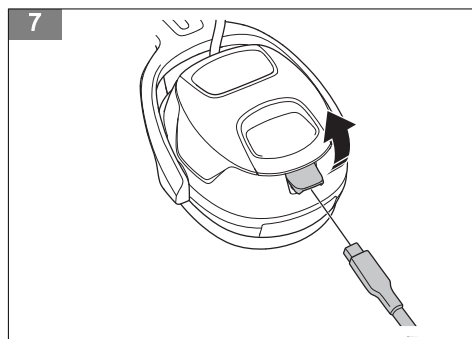
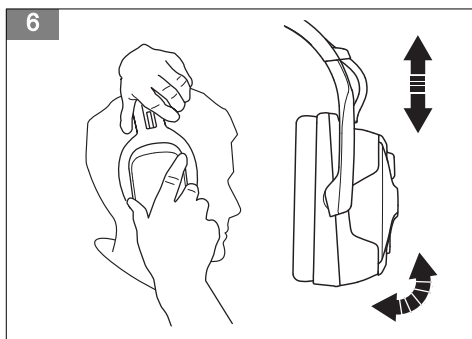
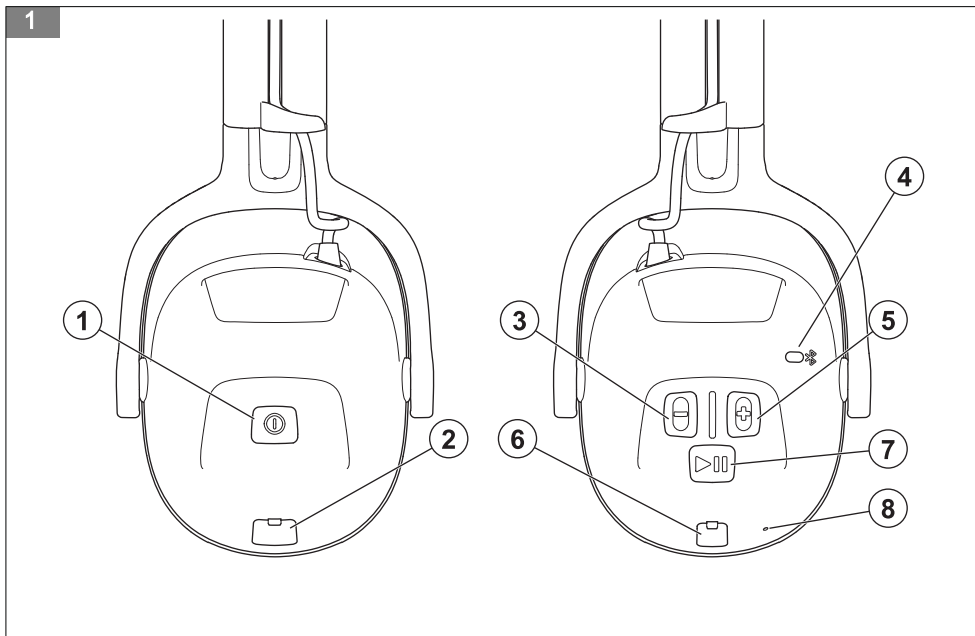




**Husqvarna®**



## Bluetooth hearing protection HP100BT-1



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## Contents

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## Introduction

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### Product description

Husqvarna Bluetooth hearing protector HP100BT-1 is a hearing protection with *Bluetooth® wireless technology*. The product is designed to protect against harmful noise.

### Intended use

The earmuffs comply with EN 352-1:2020, ANSI S3.19-1974 and AS/NZS 1270:2002. The product is adjustable in the range size small, medium and large.

### Product overview

(Fig. 1)

1. On/Off button
2. USB-C charger cable outlet
3. Volume down button
4. LED indicator
5. Volume up button
6. AUX cable outlet
7. Play/Pause button
8. Microphone

### Symbols on the product

(Fig. 2) Read the manual carefully and make sure that you understand the instructions before you use the product.

(Fig. 3) This product is in compliance with applicable EU directives.

**2777** Notified body for CE certification.

(Fig. 4) The symbol means that the product is not domestic waste. Recycle it through your local collection system for electrical and electronic equipment. This contributes to proper end of life waste management. Contact local authorities, domestic waste services, your Husqvarna servicing dealer or retailer for information. Incorrect disposal may have potential negative effects on the environment and human health, due to the potential presence of hazardous substances.

**Note:** If the product does not fit correctly, please make the necessary adjustments according to the instructions in this manual.

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(Fig. 5) Manufacturers trademark.

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**Note:** Other symbols/decals on the product refer to special certification requirements for some markets.

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### Regulations and standards

This product complies with the requirements in regulations:

- PPE Regulation (EU) 2016/425.
- European standards EN 352-1:2020, EN 352-6:2020+ A1:2024 and EN 352-8:2020+A1:2024.
- The product has been type approved by the accredited test institute:
  - SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin 15, Ireland. NB no. 2777.
  - SATRA Technology Europe is responsible for both EU type examination & ongoing conformity.
- Australian/New Zealand Standard AS/NZS 1270:2002
- Relevant American national standard for hearing protection: ANSI S3.19-1974.

Hearing protector HP100BT-1 is classified as category III followed by conformity of quality assurance of the production process (module D) laid out in Annex VIII of the Regulation 2016/425.

Hereby, Husqvarna AB, SE-561 82 Huskvarna, Sweden, tel: +46-36-146500, declares that the radio equipment type HP100BT-1 is in compliance with 2014/53/EU, 2011/65/EU and the regulation (EU) 2016/425. The full text of the EU declaration of conformity is available

at the following internet address: [www.husqvarna.com](http://www.husqvarna.com);  
search for HP100BT-1.

The battery is tested according to IEC62133-2:2017/  
A1:2021.

This portable product complies with applicable radio  
frequency (RF) exposure requirements and can be used  
close to the body without restrictions.

## FCC ID (US): ZAS-HP100BT1,

IC : 23307- HP100BT1

### FCC Compliance Statement:

Changes or modifications not expressly approved by the  
party responsible for compliance could void the user's  
authority to operate the equipment.

This equipment has been tested and found to comply  
with the limits for a Class B digital device, pursuant  
to part 15 of the FCC Rules. These limits are  
designed to provide reasonable protection against  
harmful interference in a residential installation. This  
equipment generates, uses and can radiate radio  
frequency energy, and if not installed and used in  
accordance with the instructions, may cause harmful  
interference to radio communications. However, there  
is no guarantee that interference will not occur in a  
particular installation. If this equipment does cause  
harmful interference to radio or television reception,  
which can be determined by turning the equipment off  
and on, the user is encouraged to try to correct the  
interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and  
receiver.
- Connect the equipment into an outlet on a circuit  
different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV  
technician for help.

FCC Suppliers Declaration of Conformity for  
HP100BT-1.

Responsible Party: Husqvarna Professional Products,  
Inc 9335 Harris Corners Park way, Suite 400 Charlotte,  
NC 28269 United States. U.S. contact information:

Michael Campbell, Manager product Compliance,  
Telephone +1 704 597 5000

### FCC Radiation Exposure Statement:

The device has been evaluated to meet general RF  
exposure requirement. The device can be used in  
portable exposure condition without restriction.

This device complies with Part 15 of the FCC  
Rules. Operation is subject to the following two  
conditions: (1) This device may not cause harmful  
interference, and (2) This device must accept any  
interference received, including interference that may  
cause undesired operation.

## ISED Canada Compliance Statement

This device contains licence-exempt transmitter(s)/  
receiver(s) that comply with Innovation, Science  
and Economic Development Canada's licence-exempt  
RSS(s). Operation is subject to the following two  
conditions:

- This device may not cause interference.
- This device must accept any interference, including  
interference that may cause undesired operation of  
the device.

### Déclaration d'ISED Canada

L'émetteur/récepteur exempt de licence contenu dans le  
présent appareil est conforme aux CNR d'Innovation,  
Sciences et Développement économique Canada  
applicables aux appareils radio exempts de licence.  
L'exploitation est autorisée aux deux conditions  
suivantes:

- L'appareil ne doit pas produire de brouillage.
- L'appareil doit accepter tout brouillage  
radioélectrique subi, même si le brouillage est  
susceptible d'en compromettre le fonctionnement.

### Déclaration d'ISED Canada

## Registered trademarks

The *Bluetooth®* word mark and logos are registered  
trademarks owned by *Bluetooth SIG, Inc.* and any use  
of such marks by Husqvarna is under license.

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## Safety

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### Safety definitions

Warnings, cautions, and notes are used to point out  
particularly important parts of the manual.



**WARNING:** Used if there is a risk of  
injury or death for the operator or bystanders  
if the instructions in the manual are not  
obeyed.



**CAUTION:** Used if there is a risk of  
damage to the product, other materials or  
the adjacent area if the instructions in the  
manual are not obeyed.

**Note:** Used to give more information that is necessary  
in a given situation.

## General safety



**WARNING:** Read the warning instructions that follow before you use the product.

- Use and save these instructions.
- For optimal fit and function, make sure that you have selected the correct product for your use.
- Do not change or remove parts on the product. Only do changes that are given in this operator's manual.
- The noise attenuation of the product will be severely impaired if you do not follow the instructions in this operator's manual. Ear-muffs, and in particular cushions, may deteriorate with use and should be examined at frequent intervals for cracking and leakage. Refer to *Maintenance on page 6*.
- The earmuffs must be worn at all times in noisy surroundings.
- This product may be adversely affected by certain chemical substances. Further information should be sought from the manufacturer. Keep away

from aggressive substances and clean the product regularly. Use a cloth with water and soap. Do not wash or put fully into water.

- All service and repair work must be done by an approved service workshop. Only use Husqvarna original spare parts.
- Never use the ear-muffs longer than 5 years from the manufacturing date stated on the packaging. The functionality of the product may deteriorate. Date clock to be found inside the ear cup.
- The functionality of the product may deteriorate with battery consumption.

## Battery safety

- The product contains battery and electrical components that may cause ignition in flammable or explosive atmospheres. Do not use in environments where sparks may cause a fire or explosion.
- Only charge the product within temperature range 0°C to +40°C/+32°F to +104°F. Charging outside temperature range can damage the electronics and battery.

## Assembly

### Introduction



**WARNING:** Move your hair to the side before you assemble the product. Make sure that the sealing rings are tight against your head and around your ears before you operate the product.



**WARNING:** The fitting of hygiene covers to the cushions may affect the acoustic performance of the earmuffs.

### To put on the earmuffs with headband

1. Put the headband across the top of your head.
2. Move the earmuffs up or down to adjust the height. (Fig. 6)

## Operation

### Introduction



**WARNING:** Before you operate the product, you must read and understand the safety chapter.

### To charge the product

**Note:** When fully charged, the operation time of the product is approximately 35 hours.

1. Connect the USB-C connector on the charger cable to the outlet on the left earmuff. (Fig. 7)
2. Connect the USB connector on the charger cable to a USB charger or other USB power outlet.

**Note:** The output of the power outlet must be 5 V and 2 A to charge at maximum capacity.

**Note:** The charging indicator is solid red when the battery is charging. When the battery is fully charged, the charging indicator turns solid green.

### To start the product

- Push and hold the On/Off button for 1 second. A blue light comes on for 1 second.

### To stop the product

- Push and hold the On/Off button for 1 second. A red light comes on for 1 second.

## Bluetooth® mode

In Bluetooth® mode you can connect your product to a device with Bluetooth® wireless technology.

### To pair the product with a device

- When the Bluetooth® function is activated and the battery level is low, the LED indicator flashes red and blue.
  - If the battery is discharged or the pairing time takes more than 5 minutes, the Bluetooth® function automatically stops.
1. Push and hold the On/Off button for 4 seconds to start the Bluetooth® function and to pair the product with a device. A blue light comes on for 1 second.
  2. Find and pair the product with your device. Refer to your device for instructions on how to pair the product.

**Note:** A device with Bluetooth® wireless technology that is connected to your product, connects automatically to your product the next time the product is used with the device.

### To disconnect the product

- If the product is connected to a device, push and hold the On/Off button for 6 seconds or push and hold the Play/Pause button for 3 seconds to disconnect the paired device. The product sets to pairing mode and the Bluetooth® indicator flashes blue and red.

### To use the call function

| Function              | Action                               |
|-----------------------|--------------------------------------|
| Answer incoming call. | Push the Play/Pause button.          |
| Reject incoming call. | Push and hold the Play/Pause button. |
| End ongoing call.     | Push the Play/Pause button.          |

| Function                                                          | Action                              |
|-------------------------------------------------------------------|-------------------------------------|
| Change ongoing call between the product and the connected device. | Push the Play/Pause button 2 times. |
| Call the last dialled number.                                     | Push the Play/Pause button 2 times. |
| Decrease the volume.                                              | Push the Volume down button.        |
| Increase the volume.                                              | Push the Volume up button.          |

### To use the playback function

| Function            | Action                               |
|---------------------|--------------------------------------|
| Play                | Push the Play/Pause button.          |
| Pause               | Push the Play/Pause button.          |
| Decrease the volume | Push the Volume down button.         |
| Increase the volume | Push the Volume up button.           |
| Next song           | Push and hold the Volume up button   |
| Previous song       | Push and hold the Volume down button |

### To use the AUX function

**Note:** If an audio cable is connected to the product the Bluetooth® connection stops automatically.

- Connect the product to a device with the 3.5 mm audio cable.

## Maintenance

### To do maintenance on the product

**Note:** The earmuffs must be regularly inspected for serviceability.



**CAUTION:** The earmuffs must be fitted, adjusted and maintained in accordance with the manufacturer's instructions.



**CAUTION:** Do not flush or put the product fully into water.



**CAUTION:** Spray, liquids or other cleaning agents that contain solvents and/or alcohol can decrease the protective function.



**CAUTION:** Use Husqvarna original spare parts.

1. Clean the product regularly. Use a cloth and a weak soap solution.
2. Do a check of the condition of the sealing rings and the foam rubber inserts before each use.
3. To replace the battery, please contact your Husqvarna dealer for assistance.
4. Replace the sealing rings and the foam rubber inserts each 6 months or more frequently if it is necessary. Make sure that the air hole on the sealing ring points down during assembly. Use the original hygiene kit that includes the sealing rings and the foam rubber inserts. Refer to *Spare parts on page 7*. (Fig. 8)

**Note:** If the earmuffs are wet on the inside, let them dry before assemble.

5. Replace the comfort pad on the headband if it is necessary. (Fig. 9)

**Note:** Save these instructions.

## Spare parts

| Spare part  | Article number |
|-------------|----------------|
| Hygiene kit | 536 91 58-01   |
| Comfort pad | 536 91 62-01   |

## Transportation, storage and disposal

### Transportation and storage

- Put the product in a dry and clean space with an ambient temperature between 0-50 °C.
- Do not put the product in sunlight during storage.
- Put the product in a safe space during transportation and make sure that it has protection from chemicals and/or damage.
- Make sure that the sealing rings are not compressed.

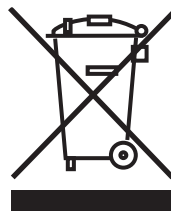
### Disposal

- Obey national regulations.
- Use the local recycling system.

### Disposal of the battery, battery charger and product

The symbol means that the product is not domestic waste. Recycle it through your local collection system for electrical and electronic equipment. This contributes

to proper end of life waste management. Contact local authorities, domestic waste services, your Husqvarna servicing dealer or retailer for information. Incorrect disposal may have potential negative effects on the environment and human health, due to the potential presence of hazardous substances.



**Note:** The symbol shows on the product or package of the product.

## Technical data

|                                                                                                               |                                                   |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Battery run time, h                                                                                           | 35                                                |
| Charging time, h                                                                                              | 2.5                                               |
| Bluetooth version                                                                                             | 5.1                                               |
| Pairing name                                                                                                  | Husqvarna bluetooth hearing protectors            |
| Connections                                                                                                   | Bluetooth, AUX                                    |
| Frequency spectrum for Bluetooth® wireless technology, MHz                                                    | 2402–2480                                         |
| Bluetooth® wireless technology output level, dBm                                                              | ≤6                                                |
| Frequency band(s) in which the radio equipment operates, MHz                                                  | 2402–2480                                         |
| Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates, dBm | ≤6                                                |
| <b>Material</b>                                                                                               |                                                   |
| Cups                                                                                                          | ABS                                               |
| Headband                                                                                                      | POM+ABS+Milk Protein Fiber fabric with EVA inside |
| Cusion                                                                                                        | PVC with foam                                     |
| Product lifetime from manufacturing to obsolescence before opening the sealed packing, years                  | 5                                                 |

## Attenuation values

**SNR** = 29 dB, **H** = 31 dB, **M** = 26 dB, **L** = 21 dB

| <b>EN 352-1:2020</b>                                                                         |      |      |      |      |      |      |      |      |
|----------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|
| Frequency, Hz                                                                                | 63   | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| Measured mean attenuation, dB                                                                | 24.8 | 19.6 | 21.3 | 25.9 | 29.6 | 34.6 | 33.8 | 34.2 |
| Standard deviation, dB                                                                       | 4.7  | 3.7  | 2.9  | 2.9  | 2.8  | 3.4  | 3.5  | 3.6  |
| Assumed protection value, dB                                                                 | 20.1 | 15.9 | 18.4 | 22.9 | 26.8 | 31.2 | 30.2 | 30.6 |
| SNRm = 30.4 dB, Hm = 32.8, Mm = 28.1, Lm = 23.7, SNRs = 1.8 dB, Hs = 1.6, Ms = 2.0, Ls = 2.5 |      |      |      |      |      |      |      |      |
| Weight, g                                                                                    | 362  |      |      |      |      |      |      |      |

| <b>EN 352-6:2020+A1:2024</b>                                                                          |      |      |      |      |      |      |
|-------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|
| <b>Bluetooth® wireless technology relationship between sound output level and input signal level.</b> |      |      |      |      |      |      |
| Sound output level, dBA                                                                               | 70.8 | 75.6 | 80.1 | 83.3 | 83.4 | 83.5 |
| Maximum sound output level, dBA                                                                       | <82  | <82  | <82  | <82  | <82  | <82  |
| Input signal level, dBFS                                                                              | -39  | -34  | -29  | -24  | -19  | -14  |

| EN 352-6:2020+A1:2024                                                                                            |  |  |               |      |      |      |      |      |      |      |
|------------------------------------------------------------------------------------------------------------------|--|--|---------------|------|------|------|------|------|------|------|
| Maximum input signal level, dBFS                                                                                 |  |  |               | -26  | -26  | -26  | -26  | -26  | -26  |      |
| Usage time for the maximum input signal that corresponds to an equivalent sound output level of 82 dBA over 8 h. |  |  |               | 5.7  | 5.7  | 5.7  | 5.7  | 5.7  | 5.7  |      |
| Criterion input signal <82 dBA(dBFS)                                                                             |  |  | -26.1         |      |      |      |      |      |      |      |
| Relationship between sound output level and input signal level, wired                                            |  |  |               |      |      |      |      |      |      |      |
| Input signal level, dBV                                                                                          |  |  | -30           | -25  | -20  | -15  | -10  | -5   | 0    | 5    |
| Sound output level, dBA                                                                                          |  |  | 54.2          | 59.3 | 64.1 | 69.1 | 74.1 | 79.1 | 83.8 | 86.8 |
| Allowable exposure time at 5 dBV input, h                                                                        |  |  | 2.6           |      |      |      |      |      |      |      |
| Criterion input signal <82 dBA(dBV)                                                                              |  |  | -2.0 (793 mV) |      |      |      |      |      |      |      |

The hearing protector provides safety-related audio input. The user should check correct operation before use. If distortion or failure is detected, the user should refer to the manufacturer's advice for maintenance.

This product may not be used for entertainment since the output level is not limited to the necessary innocuousness level.

The output of the audio circuit of this hearing protector can exceed the exposure limit levels.

| EN 352-8:2020+A1:2024                                            |                |
|------------------------------------------------------------------|----------------|
| Sound pressure level                                             |                |
| Bluetooth® wireless technology maximum sound pressure level, dBA | 79.0 @ -10dBFS |

Up to input voltage of 793mV, the entertainment audio signal doesn't exceed 82 dB(A) effective to the ear.

Earmuff provides audio signal sound pressure level limitation and limits the entertainment audio signal to 82 dB effective to the ear.



**WARNING:** The product shall not be used if it can't be ensured that the input voltage doesn't exceed the maximum value 793mV.

The hearing protector provides an entertainment audio facility.

The audibility of warning signals at a specific workplace may be impaired while using the entertainment facility.

| ANSI S3.19-1974               |      |      |      |      |      |      |      |      |      |     |           |
|-------------------------------|------|------|------|------|------|------|------|------|------|-----|-----------|
| Headband force 2.4 lbs        |      |      |      |      |      |      |      |      |      |     |           |
| Frequency, Hz                 | 125  | 250  | 500  | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR | CSA class |
| Measured mean attenuation, dB | 20.5 | 22.1 | 24.9 | 29.3 | 33.1 | 36.0 | 32.5 | 36.5 | 34.0 | 22  | BL        |
| Standard deviation, dB        | 3.8  | 3.5  | 2.7  | 2.1  | 2.4  | 3.7  | 3.7  | 3.8  | 4.0  |     |           |

The level of noise entering a person's ear, when hearing protector is worn as directed, is closely approximated by the difference between the A-weighted environmental noise level and the NRR.

- The environmental noise level as measured at the ear is 92 dBA.
- The NRR is (value on label) decibels (dB).
- The level of noise entering the ear is approximately equal to [92 dB(A)—NRR] dB(A).



**WARNING:** The C-weighted environmental noise level should be used for noise environments dominated by frequencies below 500 Hz.

Although hearing protectors can be recommended for protection against the harmful effects of impulsive noise, the Noise Reduction Rating (NRR) is based on the attenuation of continuous noise and may not be an

accurate indicator of the protection attainable against impulsive noise such as gunfire.

| <b>AS/NZS 1270:2002</b>       |      |      |      |      |      |      |      |        |       |
|-------------------------------|------|------|------|------|------|------|------|--------|-------|
| Mean headband force 10.5 N    |      |      |      |      |      |      |      |        |       |
| Frequency, Hz                 | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SLC 80 | Class |
| Measured mean attenuation, dB | 17.4 | 21.0 | 25.5 | 29.8 | 34.6 | 34.9 | 35.3 | 28     | 5     |
| Standard deviation, dB        | 6.4  | 3.0  | 2.5  | 4.2  | 3.6  | 5.0  | 3.7  |        |       |
| Mean - standard deviation, dB | 11.0 | 18.0 | 23.0 | 25.6 | 31.0 | 29.9 | 31.6 |        |       |



**WARNING:** Reported attenuation will be obtained only if the protector is in a good condition and worn as directed.

Hearing protection Class 5 tested to AS/NZS 1270.

When selected, used and maintained as specified in AS/NZS 1269, these protectors may be used in noise up to 110 dB(A) assuming an 85 dB(A) criterion. A lower criterion may require a higher protective class.

Testing according to ANSI S3.19-1974, AS/NZS1270:2002 and CSA Z94.2-2014 is performed by Michael & Associates Inc..(3024 Enterprise Drive,Suite 101, State College PA 16801). The product has been approved by SAI Global Limited, PO BOX 5420 SYDNEY NSW 2001 AUSTRALIA.





[www.husqvarna.com](http://www.husqvarna.com)

Original instructions



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