SONIS®1, SONIS®C, SONIS®3
HELMET MOUNTED EAR DEFENDERS

www.jspsafety.com RFEZ-000-0AN.19-12

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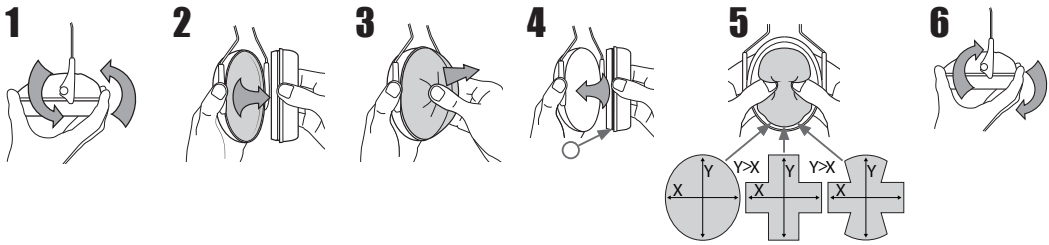
Conformity to AS/NZS1270:2002, certified by BSI Australia, Licence no. 689732

AS/NZS SAFETY EAR MUFFS / EAR-MUFFS ATTACHED TO AN INDUSTRIAL SAFETY HELMET AS/NZS1270:2002

These Hearing protectors are items of personal protective equipment (PPE) intended to reduce the harmful effects that sound and noise may have on the hearing. These models of ear-muffs have satisfied the optional requirements at +50°C and at –20°C. **WARNING:** If the following recommendations are not adhered to, the protection afforded by the ear-muffs will be severely impaired. The following may affect the acoustic performance of the ear muffs: • Long hair, untied • Thick hair, tied back • Ear jewellery • Spectacle frames • Facial hair • Respiratory harness/headband • The fitting of hygiene covers to the cushions. Ensure ear-muffs are fitted, adjusted, maintained and regularly inspected in accordance with the manufacturer's instruction. Ear-muffs should be worn at all times in noisy surroundings. If these instructions are ignored, protection will be severely impaired. Proper selection, training, use and appropriate maintenance are essential in order for the product to help protect the wearer from noise hazards. Failure to follow all instructions on the use of these personal protection products and/or failure to properly wear the complete product during all periods of exposure may adversely affect the wearer's health, lead to severe or life threatening illness or permanent disability. When worn, ear-muffs reduce ambient sounds which may affect warning signals and vital communication. Always ensure that you select the right product to match the working environment so that vital communication and emergency sounds remain audible. Ensure that: **1.** The ear-muffs are fitted, adjusted and maintained in accordance with the manufacturer's instructions. **2.** The ear-muffs are worn at all times in noisy surroundings. **3.** The ear-muffs are regularly inspected for serviceability.

CLEANING INSTRUCTIONS: The ear-muff may be cleaned with the use of soap and warm water and dried with a soft cloth. JSP cleaning wipes may also be used or an antibacterial wet wipe. Do not allow the cushions or the inner foam to become wet. If these parts become wet they should be removed and replaced. The ear-muff should not be cleaned with abrasive substances or solvents and must not be stored in direct sunlight or in contact with any solvents. This product may be adversely affected by certain chemical substances. Further information is available from JSP Ltd. Ear-muffs, and in particular cushions, may deteriorate with use and should be examined at frequent intervals for cracking and leakage, for example, and replaced when required. Replace the worn or damaged cushions and insert with the new pair from the appropriate Hygiene Kit. Instructions for removal and replacement of components are included in the Hygiene Kit (***Images 1-6 below***). (quote model when ordering).

STORAGE AND TRANSPORTATION: When not in use or during transportation, this ear-muff should be stored in a container such that it is out of direct sunlight, away from chemicals and abrasive substances and cannot be damaged by physical contact with hard surfaces/ items. Under normal circumstances the ear-muff should offer adequate protection for 5 years. When stored ensure the headband is not stretched (applies to headband version) and the cushions are not compressed as this may damage the product.



MARKINGS AND MEANINGS: (not all markings below will be visible on the product)**:**

AS/NZS1270:2002	The Australian standard for Acoustics - Hearing Protectors	JSP	The Manufacturer's trademark
(1) (C) (3)	The model reference		Name and address of Manufacturer
CE	Indicates product conforms to relevant EU directives regarding health and safety or environmental protection.		
	Storage Temperature range		Maximum relative humidity
	The components of the ear defender can be recycled		

GUIDE TO ATTENUATION TABLES: SLC = Sound Level Conversion | **F (Hz)** = Frequency measured in Hertz | **MA (dB)** = Mean attenuation in decibels | **SD** = Standard deviation | **M-SD =** Mean - Standard Deviation (dB)

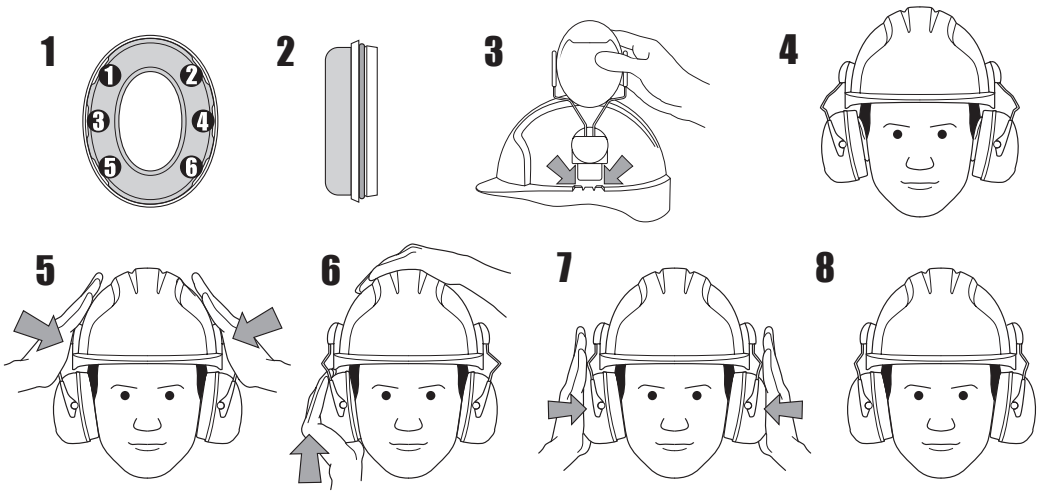
Sonis 1	Class 5							SLC(80) = 28dB
F (Hz)		125	250	500	1000	2000	4000	8000
MA (dB)	12.4	18.9	15.5	23.9	32.4	36.7	36.3	38.4
SD	3.0	2.9	2.2	2.5	4.1	3.6	2.9	5.5
M-SD(dB)	9.3	16.0	13.3	21.4	28.3	33.1	33.4	32.9

Sonis Compact	Class 5							SLC(80) = 27dB
F (Hz)		125	250	500	1000	2000	4000	8000
MA (dB)	14.4	16.4	17.4	24.9	33.3	36.4	41.8	39.5
SD	2.7	5.0	4.4	4.9	5.2	5.3	6.2	5.0
M-SD(dB)	11.7	11.4	13.0	20.0	28.1	31.1	35.6	34.5

Sonis 3	Class 5							SLC(80) = 34dB
F (Hz)	63	125	250	500	1000	2000	4000	8000
MA (dB)	18.3	22.8	25.0	35.0	40.9	37.9	37.9	37
SD	3.6	4.2	3.1	3.6	3.8	3.6	4.1	4.7
APV(dB)	14.6	18.6	21.9	31.4	37.1	34.3	33.8	32.3

BEFORE USE: Check cushion for damage. Check inner foam is present inside the cup. Check the plate is correctly attached. **IMPORTANT!** For optimum performance please check that the Cushion part is tucked under all 6 tabs on the Plate part, as shown in (***Image 1***)**.** If plate/cushion has been replaced, check that the elasticated O-ring is present (***Image 2***)**.** Prior to fitting inspect the product to ensure it is not damaged. If this is discovered dispose of immediately and obtain a new pair.

FITTING INSTRUCTIONS FOR HELMET-MOUNTED Sonis®: WARNING: These helmet mounted ear-muffs are of large size range. Helmet mounted ear-muffs complying with AS/NZS1270:2002 are of 'medium size range' or small size range' or 'large size range'. 'Medium size range' helmet mounted ear-muffs will fit the majority of wearers. 'Small size range' or 'large size range' helmet mounted ear-muffs are designed to fit wearers for whom 'medium size range' helmet mounted ear-muffs are not suitable. **These earmuffs were tested in combination with the following industrial safety helmets, and may give different levels of protection if fitted to different helmets: EVO®5 only. 1.** Insert the attachment blade firmly into the slot on the side of the helmet until it clicks into place (***Image 3***). **2.** For adequate protection ensure the helmet is fitted and adjusted to the size of the user's head. **3.** Pull cups to their maximum extension and set the arms into the stand by position (***Image 4***). **4.** Press the wire bands inwards until you hear a click on both sides indicating a firm seal (***Image 5***). **5.** Adjust the cups by sliding up or down until they form a seal around the ears (***Image 6***). **6.** Once the ear muff is fitted push both cups in towards the head to compress the cushion and improve fitment and seal further (***Image 7***). **7.** Allow 2 minutes for the cushions to warm and form to the users head. **8.** (***Image 8***) shows the product correctly fitted.



MATERIAL LISTING FOR HELMET-MOUNTED Sonis®:

COMPONENT	MATERIAL	COMPONENT	MATERIAL
Helmet attachment arm	Stainless steel wire, Acetal, Nylon	Cups	ABS
Pivot arm	Acetal	Plate	ABS
Cushions (Cushion)	TPU skin Foamed Polymer	Inner foam	PU foam

MASS FOR HELMET-MOUNTED Sonis®(g): Sonis®1 (helmet-mounted) = 239 (+/-5g), Sonis® Compact (helmet-mounted) = 256 (+/-5g), Sonis®3 (helmet-mounted) = 383 (+/-5g).