

Disclaimer

Scandia Gear is not liable for damages, in any form, that result from use or misuse. All hearing protection affords limited protection. The user is responsible for proper selection, use care and maintenance of this device. Improper selection (including under/over protection) use or maintenance may lead to serious hearing loss. For additional information contact your supervisor or Scandia Gear.



The level of noise entering a person's ear, when hearing protection is worn as directed,

is closely approximated by the

difference between the A-weighted environmental noise level and the Noise Reduction Rating (NRR).

Example

- The environmental noise level as measured at the ear is 102 dB(A).
- The NRR is 26 decibels (dB).
- The level of noise entering the ear is approximately equal to 76 dB(A).

Caution

For noise environments dominated by frequencies below 500 Hz, the C-weighted environmental noise level is applicable.

The attenuation values were obtained under laboratory conditions and are for comparison purposes only. The amount of protection afforded may differ depending on how the protectors are fitted and worn. The actual attenuation values provided in field use may be lower. Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit. Although hearing protectors can be recommended for protection against the harmful effects of impulse noise, the NRR is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulse noise such as gunfire.

Manufacturer:

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SCANSILENCE L2	ANSI S3.19-1974								NRR 23 dB	
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300		8000
Mean Attenuation, dB	15,5	18,6	29,0	30,9	36,8	36,4	38,7	39,8		39,8
Standard Deviation, dB	3,1	2,5	2,8	2,1	2,9	3,2	2,3	2,7		3,4
APV/Real Ear Protection, dB	12,4	16,1	26,2	28,8	33,9	33,2	36,4	37,1		36,4
CSA Class = B	Headband force 2.4 Lbs									

SCANSILENCE L3	ANSI S3.19-1974								NRR 27 dB	
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300		8000
Mean Attenuation, dB	19,9	23,3	35,0	42,6	36,1	37,5	40,6	40,8		41,6
Standard Deviation, dB	2,9	2,8	3,4	3,2	2,9	3,6	3,8	3,6		3,1
APV/Real Ear Protection, dB	17,0	20,5	31,6	39,4	33,2	33,9	36,8	37,2		38,5
CSA Class = A	Headband force 2.5 Lbs									

SCANSILENCE ML2	ANSI S3.19-1974								NRR 23 dB	
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300		8000
Mean Attenuation, dB	15,1	18,3	27,8	31,1	36,8	35,1	37,8	39,7		40,4
Standard Deviation, dB	2,7	2,1	1,9	2,2	1,9	2,6	3,0	4,4		3,8
APV/Real Ear Protection, dB	12,4	16,2	25,9	28,9	34,9	32,5	34,8	35,3		36,6
CSA Class = A	Headband force 2.2 Lbs									

SCANSILENCE ML3	ANSI S3.19-1974								NRR 26 dB	
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300		8000
Mean Attenuation, dB	28,1	21,8	32,7	39,5	35,8	35,8	39,9	39,0		37,8
Standard Deviation, dB	3,1	2,1	3,0	3,3	2,9	2,8	2,5	3,7		3,2
APV/Real Ear Protection, dB	25,0	19,7	29,7	36,2	32,9	33,0	37,4	35,3		34,6
CSA Class = A	Headband force 2.2 Lbs									

SCANSILENCE L2	AS/NZS 1270:2002						
Frequency, Hz	125	250	500	1000	2000	4000	8000
Mean Attenuation, dB	16,6	16,5	27,7	31,2	36,3	37,0	37,8
Standard Deviation, dB	2,7	2,1	2,6	3,1	3,7	2,4	2,7
Mean. Minus Standard Deviation, dB	13,9	14,4	25,1	28,1	32,6	34,6	35,1
Clamping force	11,6 N						
SLC 80	28,8 dB			Class 5			

SCANSILENCE L3	AS/NZS 1270:2002						
Frequency, Hz	125	250	500	1000	2000	4000	8000
Mean Attenuation, dB	18,8	20,1	32,4	40,1	36,0	38,9	37,9
Standard Deviation, dB	2,8	2,5	4,2	4,4	3,5	3,3	3,6
Mean. Minus Standard Deviation, dB	16,0	17,6	28,2	35,7	32,5	35,6	34,3
Clamping force	12,6 N						
SLC 80	31,7 dB			Class 5			

SCANSILENCE ML2	AS/NZS 1270:2002						
Frequency, Hz	125	250	500	1000	2000	4000	8000
Mean Attenuation, dB	14,7	15,9	26,1	30,4	35,7	36,0	36,8
Standard Deviation, dB	4,1	3,1	4,4	5,6	4,8	3,4	4,0
Mean. Minus Standard Deviation, dB	10,6	12,8	21,7	24,8	30,9	32,6	32,8
Clamping force	10,7 N						
SLC 80	26,3 dB			Class 5			

SCANSILENCE ML3	AS/NZS 1270:2002						
Frequency, Hz	125	250	500	1000	2000	4000	8000
Mean Attenuation, dB	16,4	17,1	28,3	35,1	33,4	36,1	35,0
Standard Deviation, dB	3,8	4,3	5,3	5,3	3,7	4,1	5,7
Mean. Minus Standard Deviation, dB	12,6	12,8	23,0	29,8	29,7	32,0	29,3
Clamping force	10,2 N						
SLC 80	27,3 dB			Class 5			



Hearing protector class 5 is tested according to AS/NZS 1270. If selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise up to 110 dB(A) assuming an 85 dB criterion. A lower criterion may require a higher class.

Please note that these earmuffs have passed the test at -20°C (-28.9°F).

Adapters

These earmuffs attached to head protection and/or face protection devices shall be fitted to, and used only with, the following carriers:

SUPPLIER	ART. NO.	DESCRIPTION	Sizes
Centurion	S01C*A	Centurion 1100 Classic Non-Vented	S, M, L
Centurion	S01E*F	Centurion 1100 Classic Vented	S, M, L
Centurion	S03C*R	Centurion 1125 Classic Non-Vented	S, M, L
Centurion	S03E*RF	Centurion 1125 Classic Vented	S, M, L
Petzl	A010CA0*	Vertex Vent	S, M, L
Petzl	A10B	Vertex Best	S, M, L
Peltor	G30DUV	G3000 Helmet	S, M, L
Peltor	G3000NVI	G3000 Ratchet Helmet	S, M, L
Uvex	-	Pheos	S, M, L
3M	-	SecureFit X5000	S, M, L
3M	-	SecureFit X5500	S, M, L
Kask	-	Plasma	S, M, L
Kask	-	Zenith	S, M, L

For details about other adapter types, please contact Scandia's Sales Department/Team.

Model Weight:

MODEL	WEIGHT
SCANSILENCE L2	207,9 gsm (7.3 oz.)
SCANSILENCE L3	209,6 gsm (7.4 oz.)
SCANSILENCE ML2	234,2 gsm (8.2 oz.)
SCANSILENCE ML3	248,6 gsm (8.8 oz.)

SCANSILENCE L2	CE EN 352-1:2020							
Frequency, Hz	125	250	500	1000	2000	4000	8000	
Mean Attenuation, dB	15,0	19,3	31,1	31,4	37,5	40,0	39,1	
Standard Deviation, dB	2,7	1,8	2,5	2,2	3,0	2,7	2,1	
Mean - SD	12,2	17,5	28,6	29,2	34,5	37,3	37,0	
SNR	SNRm	SNRs	H	M	L			
31 dB	31,6 dB	1,1 dB	35 dB	28 dB	20 dB			
			Hm	Hs	Mm	Ms	Lm	Ls
			36,9	1,7	29,1	1,2	21,4	1,5
Mass = 207,9 g	Headband force S	Headband force M	Headband force L					
	11,1 N	11,8 N	11,3 N					

SCANSILENCE L3	CE EN 352-1:2020							
Frequency, Hz	125	250	500	1000	2000	4000	8000	
Mean Attenuation, dB	18,5	22,8	35,1	42,8	38,4	40,2	39,6	
Standard Deviation, dB	2,6	1,7	1,7	2,7	2,1	3,5	2,0	
Mean - SD	15,9	21,2	33,5	40,1	36,2	36,7	37,7	
SNR	SNRm	SNRs	H	M	L			
34 dB	35,6 dB	1,6 dB	38 dB	32 dB	23 dB			
			Hm	Hs	Mm	Ms	Lm	Ls
			39,9	2,3	33,7	1,5	25,0	1,8
Mass = 209,6 g	Headband force S	Headband force M	Headband force L					
	10,4 N	11,8 N	11,5 N					

SCANSILENCE ML2	CE EN 352-3:2020							
Frequency, Hz	125	250	500	1000	2000	4000	8000	
Mean Attenuation, dB	15,9	19,9	28,4	32,3	35,3	39,2	38,0	
Standard Deviation, dB	3,2	2,7	2,5	2,2	2,3	3,0	3,4	
Mean - SD	12,7	17,3	26,0	30,1	33,0	36,2	34,6	
SNR	SNRm	SNRs	H	M	L			
30 dB	31,5 dB	1,5 dB	34 dB	28 dB	20 dB			
			Hm	Hs	Mm	Ms	Lm	Ls
			36,0	1,6	29,1	1,5	22,1	2,4
Mass = 234,2 g	Headband force S	Headband force M	Headband force L					
	9,1 N	10,0 N	9,7 N					

SCANSILENCE ML3	CE EN 352-3:2020							
Frequency, Hz	125	250	500	1000	2000	4000	8000	
Mean Attenuation, dB	18,9	23,1	32,8	40,2	36,0	40,6	39,7	
Standard Deviation, dB	2,3	2,0	2,7	2,3	2,7	2,7	3,0	
Mean - SD	16,5	21,0	30,1	37,8	33,3	37,9	36,7	
SNR	SNRm	SNRs	H	M	L			
33 dB	34,9 dB	1,4 dB	36 dB	32 dB	23 dB			
			Hm	Hs	Mm	Ms	Lm	Ls
			38,1	2,1	33,0	1,4	25,2	1,7
Mass = 248,6 g	Headband force S	Headband force M	Headband force L					
	9,6 N	10,6 N	11,4 N					



Material listing:

COMPONENT	HEADBAND VERSION	HELMET MOUNT VERSION
Headband	Spring steel wires + PVC cover	-
Headband joint	PA6	-
Swivel joint	POM	POM
Helmet attachment arm	-	POM/PA + Stainless spring steel wires
Cups	ABS	ABS
Cover plates	ABS	ABS
Absorbents	Foam	Foam
Ear cushions	Foam filling + PVC cover	Foam filling + PVC cover
Adapters	-	PBT

PASSIVE HEARING PROTECTION

Thank you for choosing our passive hearing protection

Read carefully before using your hearing protection

This hearing protection is designed to reduce the risks associated with exposure to hazardous noise levels and loud sounds and is available in multiple models.

Product/models

- ScanSilence L2 (Headband) Level 2
- ScanSilence L3 (Headband) Level 3
- ScanSilence ML2 (Mountable) Level 2
- ScanSilence ML3 (Mountable) Level 3
- Hygiene kit HK2 Level 2
- Hygiene kit HK3 Level 3

Recommendation

The wearer must ensure that the earmuffs are fitted, adjusted, and maintained in accordance with the instructions. The earmuffs should be worn at all times in noisy surroundings. Inspect the earmuffs regularly for damage. Replace the earmuffs when necessary. If the earmuffs become damaged during use, leave the noisy area immediately. The reported attenuation will be obtained only if the protector is in good condition and worn as directed. The noise reduction will be adversely affected by anything that impairs the seal of the earmuff cushions against the head.

If these recommendations are not adhered to, the protection afforded by the earmuffs will be severely impaired.

Fitting

ScanSilence earmuff range complies with EN 352-1:2020 and EN 352-3:2020, ANSI S3.19-1974 and AS/NZS:2002 1270. The earmuff is fitted in accordance with standard adult sizing.

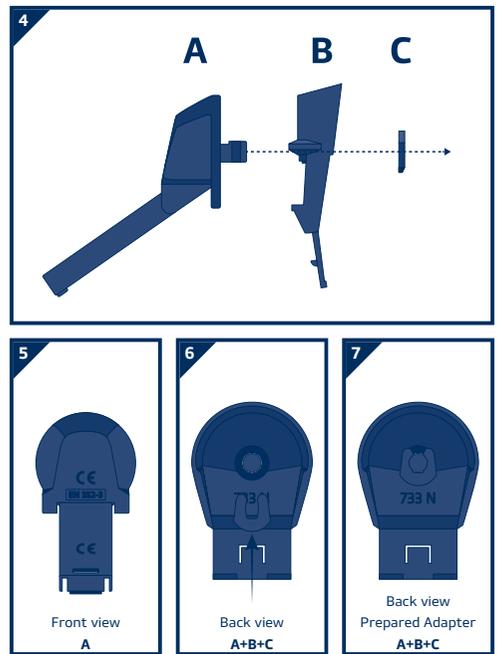
Fitting/Adjustment Headband models ScanSilence L2 / L3



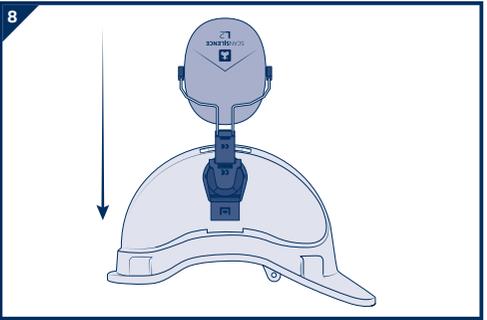
- Adjust the earmuffs to their lowest position (fig. 1)
- Place the cups over the ears (fig. 2)
- Adjust the headband so that it rests comfortably on the top of the head. Make sure that the cushions are placed firmly on the sides of the head and around the ears (fig. 3)

Fitting/Adjustment Mounting models ScanSilence ML2 / ML3

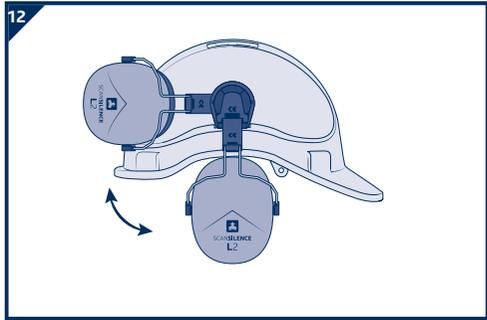
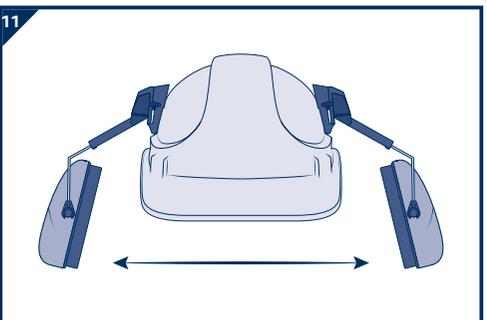
These mountable cup models are designed to be worn in combination with a safety helmet. The adapter type in combination with the helmet brandtype specification is listed in table "Scandia helmet models for adapter". Adapter nr: 733 N II is included for ScanSilence ML2, ML3. The other adapter nrs. are available upon request. The cups are attached to the safety helmet by adapters. Instructions for attaching the adapter to the spring housing as follows: (fig. 4, 5, 6, 7)



- Parts: (A) spring housing (B) adapter (C) adapter locking ring (fig. 4)
- Click the spring housing and the adapter together (fig. 4)
- Slide the locking ring into the plug in the spring housing from down to up (fig. 6-7)



- Attach both cups to the safety helmet and position them as shown (fig. 8-9)
- Place and adjust the cups over the ears (fig. 10)
- Make sure that the cushions are placed firmly on the sides of the head and around the ears.



- To place the cups in parking position and/or stand-by position see (fig. 11 and 12)



Cleaning

Do not use solvents. The earmuffs can be cleaned with a warm, damp cloth and soap solution. Allow the earmuffs to dry completely before reusing them. Do not use abrasive brushes or materials that may damage the foam pads or cushions. Do not submerge the earmuffs in water. Use only cleaning agents that are known to be harmless to the wearer. This product may be adversely affected by certain chemicals. Further information could be sought from the manufacturer.

Maintenance

The Hygiene Kits **HK2** and **HK3** consist of one pair of replacement cushions the inserts for models **L2**, **L3**, **ML2** and **ML3**. Scandia recommends replacing earmuff cushions and foam inserts every six (6) months or as needed. These replacement kits extend the lifespan of hearing protection.

Hygiene Kit ScanSilence **HK2** fits to type **L2** and **ML2**
Hygiene kit ScanSilence **HK3** fits to type **L3** and **ML3**

Earmuffs, and cushions in particular, should be examined frequently for signs of cracking, deterioration and leaking.

Remove the old cushions (fig. 13) and press the new cushions carefully and firmly onto the ear cups (fig. 14). The earcup foam filling should also be replaced when required (fig. 15).

The headband should not be flexed or adjusted unnecessarily, as the correct pressure is an important factor in maintaining the attenuation afforded by these earmuffs.



Storage

Please store these earmuffs (fig.16) in a clean, dust-free location. By following these care and maintenance instructions, these earmuffs can be used/stored for up to five (5) years from the date they were manufactured. You can find this date of manufacture on the product and on the packaging. MM/YYYY = month/manufacturing year. Please dispose of these earmuffs five (5) years after the date they were manufactured or immediately if they have been damaged or if they can no longer be cleaned.

Spare parts

Hygienic covers (e.g., comfort rings) can affect the acoustic performance of the earmuffs. Do not make any modifications to this product. Replace parts as needed with original Scandia parts.

Approval

This hearing protection is approved in accordance with the EU Regulation 2016/425, European Standards 352-1:2020, and EN 352-3:2020. EU-type examination of this PPE, issuance of the EU-type examination certification, and assessment of the manufacturer's quality system were undertaken by SGS FIMKO Ltd. (NB 0598), Takomotie 8, FI-00380 Helsinki, Finland.

Attenuation measurements have been performed according to ANSI S3.19-1974 by Michael and Associates, Inc., 2766 W. College Avenue, Suit 1, State College, Pennsylvania, USA, 16801.

Testing was carried out in accordance with AS/NZS 1270:2002 and licenses were issued by SMK40792 by SAI Global Certification Services PTy Ltd., 680 George Street, Sydney NSW 2000, Australia.

The EU Declaration of Conformity (DOC) can be found at the Scandia Gear website (www.scandiagear.com), under the Scandia product name ScanSilence and through the link "Declaration of Conformity".

SCANSILENCE

Passive Hearing Protection



User's Instruction

www.scandiagear.com

ROTTERDAM SINGAPORE HOUSTON DUBAI

SINCE 1974
MARITIME OUTFITTERS

