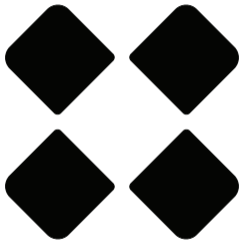
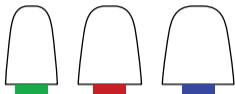


VOXEAR™ | PROTECT



Attenuation Tables

VOXEAR™ EARTIPS FOAM LONG



Slimm

Medium

Large

Nominal Diameter

7/10mm

8/12mm

9/13mm

Standard Eartips	SNR	H	M	L
Mean Attenuation (dB)	37,8	37,6	36,0	34,6
Standard Deviation (dB)	3,2	3,0	4,1	3,9
Assumed Protection Value (dB)	35	35	32	31

EN352-2:2002 Passive Noise Reduction (SNR)									
Voxear™ Eartips Foam Long (Green, Red, Blue)									
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation (dB)	28,9	32,2	33,6	36,6	36,9	37,4	40,1	44,6	35
Standard Deviation (dB)	4,5	4,6	4,4	4,4	6,6	3,7	3,5	4,8	
Assumed Protection Value (dB)	24,4	27,6	29,2	32,2	30,3	33,7	36,6	39,8	

VOXEAR™ EARTIPS FOAM SHORT



Slimm

Medium

Large

Nominal Diameter

7/10mm

7/11mm

8/12mm

Standard Eartips	SNR	H	M	L
Mean Attenuation (dB)	31,6	33,3	28,2	27,3
Standard Deviation (dB)	3,1	2,3	3,7	3,8
Assumed Protection Value (dB)	29	31	25	24

EN352-2:2002 Passive Noise Reduction (SNR)

Voxear™ Eartips Foam Short (White, Black, Purple)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation (dB)	25,5	27,8	27,4	26,0	29,4	33,8	37,7	40,5	29
Standard Deviation (dB)	2,4	4,0	4,0	5,5	4,2	4,0	3,2	4,2	
Assumed Protection Value (dB)	23,1	23,8	23,4	20,5	25,2	29,8	34,5	36,3	

VOXEAR™ EARTIPS SILICONE



Small
Nominal Diameter
6/11mm



Large
Nominal Diameter
7/12mm

Standard Eartips	SNR	H	M	L
Mean Attenuation (dB)	31,6	30,1	30,2	31,6
Standard Deviation (dB)	2,9	3,3	2,6	2,8
Assumed Protection Value (dB)	29	27	28	29

EN352-2:2002 Passive Noise Reduction (SNR)									
Voxear™ Eartips Silicone									
Frequency (Hz)	63	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation (dB)	29,6	35,8	36,0	35,0	30,1	30,7	31,6	44,5	29
Standard Deviation (dB)	3,8	3,8	4,4	5,4	3,2	4,3	6,8	5,8	
Assumed Protection Value (dB)	25,8	32,0	31,6	29,6	26,9	26,4	24,8	38,7	

EN352-7:2002 Level Dependent Function		
Criterion Level Voxear™ Eartips Foam Long	H=116 dB(A)	M=113 dB(A) L=112 dB(A)
Criterion Level Voxear™ Eartips Foam Short	H=113 dB(A)	M=107 dB(A) L=107 dB(A)
Criterion Level Voxear™ Eartips Silicone	H=113 dB(A)	M=111 dB(A) L=111 dB(A)
EN352-9:2002 Bluetooth (HSP/HPF)		
Criterion input signal	-24,4 dBFS	
Sound output level at maximum input signal	92,5 dB(A) -14 dBFS	
Usage time for maximum input signal	0,7 h at -14 dBFS	
Sound level input (dBFS)	Sound level output (dB(A))	
-36,3	70	
-31,4	75	
-26,4	80	
-21,4	85	
-16,4	90	
-14,0	95	
EN352-10:2002 Bluetooth (A2DP)		
Maximum sound pressure level	80,5 dB(A) at -10 dBFS	

EXPLANATION OF ATTENUATION TABLES

EN 352-2/EN 352-7/EN 352-9/EN352-10

- H = Hearing protection estimation for high frequency sounds ($f \geq 2000\text{Hz}$).
- M = Hearing protection estimation for medium frequency sounds ($500\text{Hz} < f < 2000\text{Hz}$).
- L = Hearing protection estimation for low frequency sounds ($f \leq 500\text{Hz}$).

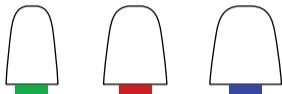
Criterion Level EN 352-7:2020

- H = Criterion level for high-frequency noise
- M = Criterion level for medium-frequency noise
- L = Criterion level for low-frequency noise

Voxear™ Eartip Foam

Voxear™ Eartip Silicone

Long



Short



Small

Large

Slimm

Medium

Large

Fig. 6

3.5 Selection and fitting of Eartips

1. The Earphones are marked with R (Right) and L (Left) on the inside of the stem (fig 1.3).
2. In the packaging you have a selection of 6 different Voxear™ Eartips Foam and 2 different Voxear™ Eartips Silicone.
3. Screw the Eartip on the earphone tube. The Silicone Eartip has no thread in the core, but press and screw will make it easy to fit. Make sure you screw the Eartip all the way to the bottom.
4. Compress the foam Eartip and open your ear-canal with the opposite arm. See picture left, how you open your ear-canal. Silicone Eartips does not need to be compressed.
5. Fit the Eartip in to the ear canal and rotate if needed and if using foam Eartips hold for 10-15 seconds until you have tight fit.
6. If you experience sound leakage or uncomfort in the ear canal try another eartip to secure good protection and comfort.

5 APPROVALS



Voxear Technologies AB declares that the product is in compliance with Directive (EU)2016/425 and EN352-2:2020, EN357-2:2020, EN352-9:2020, EN352-10:2020 and other appropriate directives to fulfill the requirements for the CE marking.

Voxear Technologies AB also declare that the PPE type headset is in compliance with the Regulation (EU) 2012/19/EU, the directive 2011/65/EU (RoHS) and (EU)2015/863 and the Radio Equipment Directive 2014/53/EU. The complete declaration of conformity is available at www.voxear.com.



Voxear Technologies AB
Sweden

UM V1.0