

# TECHNICAL DATASHEET

## ZONE - FORESTRY & AMENITY EAR DEFENDERS



### DESCRIPTION

The Zone Forestry and Amenity headband and helmet mount ear defenders provide an even and comfortable cushion pressure due to their twin stirrup design and optimised clamping force. A quick slide size adjustment mechanism allows the headband style to fit multiple head sizes whilst a comfortable foam pad sits on the heads crown to ensure temptation to remove is reduced. The helmet mounted versions can be placed in airing or rest positions and feature a low profile, twin stirrup design for reduced snagging in thick undergrowth and consistent noise blocking performance.

### APPLICATIONS

The Forestry and Amenity models offer two levels of attenuation, Zone 1 and Zone 2 in the required aesthetics and optimised protection levels for workers in this industry. Suitable for chain sawing, chipping, brush/hedge cutting and mowing.

### ATTENUATION

Zone 1	Environments with low to medium noise levels.
Zone 2	Environments with medium to high noise levels.

### APPROVALS

CE Certified to EN352-1:2002
CE Certified to EN352-3:2002
VMC Nylon Mesh - CE Certified to EN1731 S
VMC PC - CE Certified to EN166 B39

### MAINTENANCE

Zone earmuffs should be inspected prior to use for deterioration or damage and if found to be defective they should be replaced. Regular washing with warm water and mild soap is all that is required to prevent the buildup of dirt, dust and skin particles. Prior to washing, the cushions and foam liners should be removed. The use of solvents and harsh abrasives is not recommended. Replacement cushions and acoustic foam available to maintain performance.

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## COMPONENT MATERIAL

1. Cup Shell	Acrylonitrile Butadiene Styrene (ABS)
2. Spacer	Acrylonitrile Butadiene Styrene (ABS)
3. Shield Insert	Acrylonitrile Butadiene Styrene (ABS)
4. Headband	Polyacetal (POM)
5. Headband Cushion	Polyether
6. Buckle (Stirrup)	Polyacetal (POM)
7. Foam	Polyether
8. Cushion	Polyether, PVC



## TECHNICAL SPECIFICATION

	Zone 1 Headband			Zone 1 Helmet Mount			Zone 2 Headband			Zone 2 Helmet Mount		
<b>Part No.</b>	Z1FHBE-2023687			Z1FHME-2023681			Z2FHBE-2023688			Z2FHME-2023682		
<b>Weight</b>	252 g			238 g			281 g			259 g		
<b>Colour</b>	Yellow Pantone equivalent 1235C			Yellow Pantone equivalent 1235C			Orange Pantone equivalent 1505C			Orange Pantone equivalent 1505C		
<b>Cushion Pressure</b>	Small 3353Pa	Medium 3478Pa	Large 3304Pa	Small 3232Pa	Medium 3509Pa	Large 3529Pa	Small 3482Pa	Medium 3477Pa	Large 3353 Pa	Small 3206Pa	Medium 3544Pa	Large 3390Pa
<b>Headband Force</b>	Small 11,5N	Medium 12,0N	Large 11,3N	Small 12,0N	Medium 13,3N	Large 13,3N	Small 11,7N	Medium 12,1N	Large 11,4N	Small 12,1N	Medium 13,3N	Large 12,8N

## PERFORMANCE

### Zone 1 Headband

Freq. Hz	63	125	250	500	1k	2k	3.15k	4k	6.3k	8k	H	M	L	SNR
Mean value	16.3	13.0	20.5	30.5	35.1	33.1	33.3	35	37.6	36.5				
1 std. Deviation	2.7	2.6	2.1	3.2	3.7	3.5	3.5	3.0	1.9	2.6	31	27	18	29
APV	13.6	10.4	18.4	27.3	31.4	29.5	29.7	31.9	35.6	33.8				

### Zone 1 Helmet Mounted

Freq. Hz	63	125	250	500	1k	2k	3.15k	4k	6.3k	8k	H	M	L	SNR
Mean value	12.2	10.8	19.5	25.4	34.2	31.4	30.8	34.4	35.3	34.9				
1 std. Deviation	4.7	2.9	2.7	3.0	3.2	3.6	2.9	3.2	2.5	3.2	30	25	16	27
APV	7.5	7.9	16.8	22.4	31.0	27.8	27.9	31.2	32.8	31.7				

### Zone 2 Headband

Freq. Hz	63	125	250	500	1k	2k	3.15k	4k	6.3k	8k	H	M	L	SNR
Mean value	19.8	14.7	22	32.4	37.7	34.2	35.9	34.9	37.8	38.7				
1 std. Deviation	4.4	3.2	2.7	2.7	3.6	2.0	3.2	2.3	2.9	3.5	34	29	20	31
APV	15.4	11.6	19.3	29.7	34.1	32.2	32.7	32.7	34.9	35.2				

### Zone 2 Helmet Mounted

Freq. Hz	63	125	250	500	1k	2k	3.15k	4k	6.3k	8k	H	M	L	SNR
Mean value	13.2	12.7	22.3	28.6	34.2	32.5	33.1	35.5	39.2	38.6				
1 std. Deviation	4.8	3.2	3.0	3.1	3.4	3.2	2.8	2.4	2.5	3.7	32	27	18	29
APV	8.4	9.4	19.3	25.5	30.8	29.3	30.2	33.0	36.7	34.9				



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.