

TECHNICAL DATASHEET

ZONE - INDUSTRIAL HEADBAND EAR DEFENDERS



DESCRIPTION

Offering the right balance between protection and comfort, Zone Industrial headband variants provide an even and comfortable cushion pressure due to their twin stirrup design and optimised clamping force. A quick slide size adjustment mechanism allows one style of earmuff to fit multiple head sizes and a comfortable foam pad sits in the headband to ensure temptation to remove the hearing protection is reduced. All Zone headband earmuffs can be easily converted into a visor muff combination (VMC) for combination face protection. All Zone ear defenders are designed with intuitive and bright safety colour ear cup inserts and spacers which are designed to aid ease of selection and assist during safety checks on employees.

APPLICATIONS

The Zone Industrial range is suitable for a wide range of industrial applications that require 'noise blocking' or 'passive' hearing protection including machine operation, maintenance, aerospace and automotive type applications.

ATTENUATION

Zone 1	Environments with low to medium noise levels.
Zone 2	Environments with medium to high noise levels.
Zone 3	Environments with extreme high noise levels.

APPROVALS

CE Certified to EN352-1:2002
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			Zone 2			Zone 3		
Part No.	Z1IHBE - 2023684			Z2IHBE - 2023685			Z3IHBE - 2023686		
Weight	252 g			281 g			346 g		
Colour	Black / Yellow Pantone equivalent 1235C			Black / Orange Pantone equivalent 1505C			Black / Red Pantone equivalent 1805C		
Cushion Pressure	Small 3353Pa	Medium 3478Pa	Large 3304Pa	Small 3482Pa	Medium 3477Pa	Large 3353 Pa	Small 3278Pa	Medium 3380Pa	Large 3241Pa
Headband Force	Small 11.5N	Medium 12.0N	Large 11.3N	Small 11.7N	Medium 12.1N	Large 11.4N	Small 11.8N	Medium 12.2N	Large 11.7N

PERFORMANCE

Zone 1

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	35.0	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 2

Freq. Hz	63	125	250	500	1k	2k	3.15k	4k	6.3k	8k	H	M	L	SNR
Mean value	19.8	14.7	22.0	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 3

Freq. Hz	63	125	250	500	1k	2k	3.15k	4k	6.3k	8k	H	M	L	SNR
Mean value	19.8	18.7	24.8	35.2	39.4	35.5	38.0	40.8	43.3	42.3				
1 std. Deviation	5.1	3.1	2.2	3.5	1.9	2.6	4.1	2.5	3.1	2.3	36	32	23	34
APV	14.5	15.7	22.6	31.7	37.5	32.9	33.9	38.3	40.2	39.9				



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.