

# TECHNICAL DATASHEET

## ZONE - INDUSTRIAL NECKBAND EAR DEFENDERS



### DESCRIPTION

Zone neckband style ear defenders offer the ideal solution where safety helmets do not have attachment slots or hearing protection needs to be used in conjunction with a head mounted face shield or a baseball style bump cap. Neckband style ear defenders offer a slightly different centre of gravity and weight distribution, which is the personal preference of some users. Zone neckband ear defenders provide an even and comfortable cushion pressure due to their twin stirrup design and optimised clamping force to ensure comfort for long durations. All Zone ear defenders are designed with bright, intuitive safety colour ear cup inserts and spacers 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

### 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. Cushion	Polyether, PVC Foil
5. Foam	Polyether
6. Buckle Fastening	Polyacetal (POM)
7. Buckle	Stainless Steel
8. Shrink Tubing	Polyolefin
9. Headband	Nylon with velcro



## TECHNICAL SPECIFICATION

	Zone 1			Zone 2			Zone 3		
<b>Part No.</b>	Z1INBE - 20233690			Z2INBE - 2023691			Z3INBE - 2023692		
<b>Weight</b>	214 g			230 g			296 g		
<b>Colour</b>	Black / Yellow Pantone equivalent 1235C			Black / Orange Pantone equivalent 1505C			Black / Red Pantone equivalent 1805C		
<b>Cushion Pressure</b>	Small 2407Pa	Medium 3152Pa	Large 3511Pa	Small 2619Pa	Medium 3307Pa	Large 3512Pa	Small 2480Pa	Medium 3204Pa	Large 3567Pa
<b>Neckband Force</b>	Small 8.9N	Medium 11.6N	Large 12.7N	Small 9.1N	Medium 12.0N	Large 12.9N	Small 8.9N	Medium 11.5N	Large 12.6N

## PERFORMANCE

Zone 1														
Frequency Hz	63	125	250	500	1k	2k	3,15k	4k	6,3k	8k	H	M	L	SNR
Mean attenuation	15.7	14.6	18.3	27.8	34.4	32.7	29.4	30.1	35.2	33.8				
St.dev.	5.6	2.4	1.6	2.7	3.4	2.8	1.9	2.8	2.6	2.8	30	26	19	28
APV	10.1	12.2	16.7	25.2	31.1	29.9	27.5	27.3	32.6	31				
Zone 2														
Frequency Hz	63	125	250	500	1k	2k	3,15k	4k	6,3k	8k	H	M	L	SNR
Mean attenuation	16.1	16.6	22.2	31.6	36.7	34	34.4	36	39.3	40				
St.dev.	4.1	2.3	3.5	2.7	3.3	3.0	3.3	3.4	3.2	3.2	33	29	21	31
APV	12.0	14.4	18.7	28.9	33.4	31.1	31.1	32.6	36.1	36.8				
Zone 3														
Frequency Hz	63	125	250	500	1k	2k	3,15k	4k	6,3k	8k	H	M	L	SNR
Mean attenuation	17.7	16.2	24.3	32.2	37.9	34.8	37.9	40.4	42.9	42.9				
St.dev.	5.3	1.7	2.4	2.3	2.4	2.8	4.0	2.8	2.8	3.0	35	30	22	33
APV	12.5	14.5	21.9	29.9	35.6	31.9	33.9	37.6	40.0	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.