

CE 0086

EN 352-1:2002
EN 352-4:2001



MANUFACTURER : Portwest Limited , Westport, County Mayo, Ireland

Name & Address of the Notified Body having issue EC certificate:

BSI GROUP

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Notified Body number: 0086

Notified body responsible for the ongoing conformity under MODULE D

BSI Group - Notified Body Number 0086

MODELS: PW45

EN

HEARING PROTECTORS: LEVEL DEPENDENT EAR MUFFS

USER INFORMATION ITEM: PW45 - ELECTRONIC EAR MUFF

ALL THESE PRODUCTS COMPLY WITH THE REQUIREMENTS OF REGULATION (EU 2016/425) AND THE GENERAL REQUIREMENTS OF THE STANDARD :

- EN352-1:2002 "Hearing protectors – General requirements. Part 1: Ear muff"
- EN352-4:2001 "Hearing protectors– Safety requirements and testing. Part 4: Level-dependent ear muff"
- Emissions : EN 55022:1998/A1:2000/A2:2003(Class B), EN 61000-6-1,6-3:2001
- Immunity : EN 61000-4-2:1995/A1:1998/A2:2000, EN 61000-4-3:2002/A1:2002

These ear protectors are designed to protect the wearer against harmful noises and must be worn at all times in noisy environments (noise levels above 80dB) and must be chosen according to their attenuation factors in relation to the ambient noise to be reduced (see performances). Ensure that they are correctly fitted, adjusted, maintained and inspected in accordance with these instructions. If these instructions are not complied with, the protection provided by the ear defender will be considerably reduced.

APPLICATION :

1. In addition to the passive ear muffs protecting against harmful noises, these offer a special function by providing different attenuation as the sound levels changes.
2. The external volume may be adjusted subject to the need of operation site, marking the talk sound after filtered be more clear.

USE :

Open the battery chamber cover on the right side and put two pieces of 1.5V AA battery in it. Then close the chamber cover. Turn the ON/OFF & VOLUME KNOB under the turning button and check up if the knob links with the source of electricity, and adjust volume until you feel the sound is satisfactory.

- Extend the headband to maximum "open" position and wear the earmuffs by placing the cups over the ears with the headband passing over the head.

SIZE: PW45: these ear-muffs are of size range; S/M/L

Ear-muffs complying with EN 352-1 are of Large size range, Medium Size Range or Small size range. Medium size range ear-muffs will fit the majority of wearers. Large size range and Small size range ear-muffs are designed to fit wearers for whom medium size range ear-muffs are not suitable.

COMPOSITION AND MASS WEIGHT: PW45: Cup HIPS / Cushion: PVC / Headband: POM : 316.8gr

No spare parts available.

Warning : It is time to replace batteries, when interference increases or sound level is weak. Always change battery correctly. Failure to do so can damage the electronics of the product. Do not replace batteries with the power source on. Ensure that batteries are correctly installed before using the earmuff.

Never store unit with batteries installed.

Do not immerse unit in water.

In normal conditions of use, these ear defenders will remain effective for 2 to 3 years after their initial use. Ear-muffs, and in particular cushions, may deteriorate with use and should be examined at frequent intervals for cracking and leakage, for example.

If any damage is found, throw the ear defenders away.

The fitting of hygiene covers to the cushions may affect the acoustic performance of the earmuffs.

These ear defenders can cause allergic reactions in sensitive subjects, and if such a situation occurs, leave the noisy environment and remove the ear defenders.

Although hearing protector s can be recommended for protection against the harmful effects of impulsive noise, the SNR-value (single Number rating) is based on the attenuation of continuous noise and must not be an accurate indicator of the protection attainable against impulsive noise such as gunfire which may still result in hearing loss. Impulsive noise is defined as noise levels having peaks at intervals of greater than one second. There may be conditions under which impulsive noise exists and many differences in the tolerances of various noise exists. For this reason, there is not accepted way to determine if any hearing protective device provides adequate protection against impulsive noise.

This ear-muff is provided with level-dependent attenuation. The wearer should check correct operation before use. If distortion or failure is detected, the wearer should refer to the manufacturers advice for maintenance and replacement of the battery.

Performance may deteriorate with battery usage. The typical period of continuous use that can be expected from the ear-muff battery is 50 hours.

CLEANING :

As this equipment is composed of electronic components, it cannot be cleaned with either water or solvent. It is suggested that you can remove dust from its surface with a blast gun.

STORAGE AND MAINTENANCE

Put the ear defenders away after use in a cool, dry place, out of the light and protected from frost. When not used, store in the original packaging. This product may be adversely affected by certain chemical substances. Further information should be sought from the manufacturer.

PERFORMANCE – ACOUSTIC ATTENUATION (in DB):

(See tables enclosed)

OTH = Fitted over the head SNR = Single Number Rating / A = Frequency (Hz) B = Mean Attenuation (dB) / C = Standard Deviation (dB) / D = Assumed Protection (dB). Attenuation in dB :H = High frequencies/M = Medium frequencies/L = Low frequencies (bass).

Download declaration of conformity @ www.portwest.com/declarations

PERFORMANCES - SOUND ATTENUATION EN 352-1:2002

PW45	SNR 31.0dB H: 35.0 M: 8.0 L: 21.0							
	A	B	C	D	H	M	L	OTH
Frequency (Hz)	125	250	500	1000	2000	4000	8000	
Mean Attenuation (dB)	17.9	20.3	29.2	34.6	36.8	39.0	40.1	
Standard Deviation (dB)	2.1	2.2	3.4	2.5	3.1	2.7	2.7	
Assumed Protection (dB)	15.8	18.1	28.8	32.1	33.7	36.2	37.5	

CRITERION LEVEL: LEVEL DEPENDENT FUNCTION WAS TESTED ACCORDING TO EN 354-1:2001

Level Outside	65.0	70.0	75.0	80.0	85.0	90.0	95.0	100.0	105.0	110.0	115.0	120.0
Mean H-Noise	63.3	69.3	75.4	71.0	56.4	55.7	59.7	64.3	69.3	74.5	79.7	84.9
St. dev H-Noise	2.7	2.6	2.6	12.2	4.4	3.1	3.4	3.6	3.6	3.3	3.2	3.1
Mean M-Noise	68.2	73.2	78.3	83.6	88.6	93.6	98.6	103.5	108.5	113.5	118.5	123.4
St. dev M-Noise	2.2	2.3	2.3	2.4	2.7	3.1	3.7	4.2	4.8	5.4	6.0	6.6
Mean L-Noise	65.0	70.0	75.1	80.1	84.8	89.3	93.9	98.4	102.9	107.4	112.0	116.5
St. dev L-Noise	1.5	1.6	1.6	1.6	1.5	1.6	1.7	1.9	2.2	2.5	2.8	3.2

H:120dB M: 85dB L: 90dB