

## CE0086

### MANUFACTURER

Portwest Limited, Westport, County Mayo, Ireland

### EN 352-1:2002

### Name & Address of the Notified Body having issue CE certificate:

#### BSI GROUP

Kitemark Court – Davy Avenue, Knowlhill, Milton Keynes, MK8 6PP - UK  
Notified Body number: 0086

Notified body responsible for the ongoing conformity under MODULE D  
BSI Group - Notified Body NR 0086

MODELS: PW40/PS40, PW41/PS41, PW48, PS48

12/2017



## EN HEARING PROTECTORS: EAR MUFFS

### USER INFORMATION

**ALL THESE PRODUCTS COMPLY WITH THE REQUIREMENTS OF REGULATION (EU 2016/425). AND THE GENERAL REQUIREMENTS OF THE STANDARD EN352-1:2002**

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. The ear muffs must be regularly inspected for serviceability.

**Warning:** if these instructions are not adhered to, the protection afforded by the ear-muffs will be severely impaired.

Be warned that spectacle frames and hair between the ear pads and the head can also affect the performance of the ear defenders.

#### SIZING

PW40/PS40: these ear-muffs are of size range: S/M/L

PW41/PS41: these ear-muffs are of size range: M/L

PW48: these ear-muffs are of size range: S/M/L

PS48: 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.

Fitting Over The Head (O-H): Place the cups of the ear defenders on the lowest slot of the headgear assembly. There is no direction (left or right) to place the cups. Place the cups over the ears, headband directed upwards. Go down the headband until it touches the top of the head. To fit on S/M/L size range, adjust the slot of the headgear and cups lowest for L, highest for S size.

#### WEIGHT AND COMPOSITION:

PW40/PW41: Cups ABS / Cushion: PVC / Headband: PC - Mean mass of the ear muffs = 157gr

PW41/PS41: Cups HIPS / Cushion: PVC / Headband: POM - Mean mass of the ear muffs = 257gr

PW48: Cups ABS / Cushion: PVC / Headband: POM - Mean mass of the ear muffs = 168gr

PS48: Cups HIPS / Cushion: PVC / Headband: POM - Mean mass of the ear muffs = 184gr

No spare parts available.

#### 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.

Clean & disinfect with warm soapy water cup, cushion & headband & dried with soft cloth. Never use solvents, abrasive or noxious products.

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.

#### 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 at [www.portwest.com/declarations](http://www.portwest.com/declarations)

### PERFORMANCES - SOUND ATTENUATION - EN 352-1:2002

PW40/PS40		SNR 27.6dB				H: 29.2 M: 25.4 L: 17.9			
A	Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
B	Mean Attenuation (dB)	18.1	15.0	18.3	26.8	37.5	29.5	35.8	36.1
C	Standard Deviation (dB)	4.1	2.7	3.3	2.0	4.1	2.9	3.3	5.8
D	Assumed Protection (dB)	14.0	12.3	15.0	24.8	33.4	26.6	32.5	30.3

PW41/PS41		SNR 30.4dB				H: 33.0 M: 27.8 L: 21.3			
A	Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
B	Mean Attenuation (dB)	17.8	18.0	22.3	27.2	37.4	33.9	37.4	38.4
C	Standard Deviation (dB)	3.5	2.6	2.0	3.1	3.3	2.2	3.5	5.1
D	Assumed Protection (dB)	14.3	15.4	19.3	24.1	34.0	31.7	33.9	33.3

PW48		SNR 27.6dB				H: 30.4 M: 24.9 L: 17.7			
A	Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
B	Mean Attenuation (dB)	19.0	16.0	18.3	25.9	30.6	31.7	34.5	38.1
C	Standard Deviation (dB)	5.7	5.0	2.5	2.8	1.6	3.4	2.8	2.6
D	Assumed Protection (dB)	13.3	11.0	15.8	23.1	28.9	28.3	31.7	35.5

PS48		SNR 22dB				H: 30dB M: 19dB L: 12dB			
A	Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
B	Mean Attenuation (dB)	13.5	11.2	12.8	19.9	27.6	34.1	41.6	37.3
C	Standard Deviation (dB)	5.6	4.3	3.9	3.6	3.8	2.4	3.2	4.5
D	Assumed Protection (dB)	7.9	6.9	9.0	16.2	23.8	31.7	38.4	32.7

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PS48		NRR (NOISE REDUCTION RATING) = 22dB									
A	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	
B	Mean Attenuation (dB)	18.1	17.3	26.2	35.4	39.2	36.7	34.9	35.3	35	
C	Standard Deviation (dB)	2.8	2.7	3.0	3.3	3.0	2.8	3.0	2.9	3.9	

PW41/PS41		NRR (NOISE REDUCTION RATING) = 25dB									
A	Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	
B	Mean Attenuation (dB)	17.6	21.8	30.7	39.7	35.5	37.3	39.1	34.6	35.6	
C	Standard Deviation (dB)	3.1	2.6	2.9	3.0	3.1	2.8	2.7	2.7	3.8	

