

Technical Datasheet

Peltor™ Passive Earmuffs Bull's Eye™ Range



Product Description

The Peltor™ Bull's Eye™ passive range of foldable earmuffs are available in three different colours; military green, black and red. These products are designed to provide a moderate to high level of attenuation that meets the needs of sports shooters and hunters.

When correctly selected and worn these products help reduce exposure to hazardous levels of noise and loud sounds.

NOTE: This technical fact sheet applies to Peltor™ Bull's Eye™ I, however, for information on Bull's Eye™ II and III please refer to the 3M™ Peltor™ Optime™ II and III products as they are identical with the exception of colour.

Key Features

- Modern, stylish slim line cup design
- Bevelled cup increases compatibility with hunting/shooting weapons
- Liquid sealing rings for improved comfort (Peltor™ Bull's Eye™ I and II only)
- Unique low profile headband design helps maintain constant pressure thus providing confidence in protection
- Large space inside cup helps reduce moisture and heat build-up
- Soft wide cushions help reduce pressure around the ears and improve comfort and wearability
- Easy to replace cushions and inserts helps keep them hygienically clean
- Easy to understand attenuation symbol to help ensure correct product selection

Applications

The Peltor™ Bull's Eye™ range of earmuffs are ideal for protection against noise arising from many sports shooting and hunting activities. Examples of typical applications include:

- All kinds of sport shooting, including clay pigeon
- Hunting

Attenuation values

Bull's Eye I - H515

| Frequency (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------------|------|------|------|------|------|------|------|------|
| Mf (dB) | 13.1 | 10.9 | 17.2 | 26.6 | 28.3 | 33.5 | 37.8 | 37.9 |
| sf (dB) | 3.2 | 3.2 | 2.5 | 2.2 | 2.7 | 2.6 | 2.0 | 2.6 |
| APVf (dB) | 10.0 | 7.7 | 14.8 | 24.4 | 25.6 | 30.9 | 35.7 | 35.3 |

SNR = 27dB H = 32dB M = 24dB L = 15dB

Bull's Eye II - H520F

| Frequency (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------------|------|------|------|------|------|------|------|------|
| Mf (dB) | 16.1 | 14.5 | 20.3 | 32.6 | 39.1 | 35.1 | 34.7 | 39.8 |
| sf (dB) | 2.0 | 1.8 | 2.6 | 2.4 | 2.5 | 2.3 | 2.7 | 2.5 |
| APVf (dB) | 14.1 | 12.7 | 17.7 | 30.2 | 25.6 | 32.8 | 32.0 | 37.3 |

SNR = 31dB H = 34dB M = 29dB L = 20dB

Bull's Eye III - H540A

| Frequency (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|----------------|------|------|------|------|------|------|------|------|
| Mf (dB) | 20.8 | 17.4 | 24.7 | 34.7 | 41.2 | 39.3 | 47.5 | 42.6 |
| sf (dB) | 3.1 | 2.1 | 2.6 | 2.0 | 2.1 | 1.5 | 4.5 | 2.5 |
| APVf (dB) | 17.7 | 15.3 | 22.1 | 32.7 | 39.3 | 37.8 | 43.0 | 40.0 |

SNR = 35dB H = 40dB M = 32dB L = 23dB

Key

APVf (dB) = Mf – sf (dB)

Mf = Mean attenuation value

sf = Standard deviation

APVf = Assumed Protection Value

H = High-frequency attenuation value (predicted noise level reduction for noise with L(C) – L(A) = -2dB)

M = Medium-frequency attenuation value (predicted noise level reduction for noise with L(C) – L(A) = +2dB)

L = Low-frequency attenuation value (predicted noise level reduction for noise with L(C) – L(A) = +10dB)

SNR = Single Number Rating (the value that is subtracted from the measured C-weighted sound pressure level, L(C) in order to estimate the effective A-weighted sound pressure level inside the ear).



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Standard & Approval

The Peltor™ Bull's Eye™ range of earmuffs have been tested and CE approved against the European Standard EN352-1:2002. These products meet the Basic Safety Requirements as laid out in Annex II of the European Community Directive 89/686/EEC and have been examined at the design stage by the Finnish Institute of Occupational Health (FIOH), Topeliuksenkatu 41aA, FIN-00250 Helsinki, Finland (Notified Body number 0403).

Accessories/Replacement Parts

The cushions and inserts on the Peltor™ Bull's Eye™ can be replaced with the HY51 Hygiene Kit for improved comfort and reassured protection. For military green version please refer to Hygiene Kit HY51 GN.

The HY100A Hygiene Pads can be placed on the cushions to help absorb moisture and sweat.

Specially designed safety spectacles, available in three different lenses, help compliment the Peltor™ Bull's Eye™ range earmuffs.

Materials

The following materials are used in the manufacture of this product.

| Component | Material |
|------------------|-----------------------------------|
| Headband | Stainless Steel Wire, PVC, Acetal |
| Headband padding | PVC |
| Cups | ABS |
| Inserts | Polyether |
| Cushions | Polyether |
| Cushion cover | PVC |



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