



**OCCUPATIONAL SAFETY
& HEALTH SERVICE**

ARCHIVED

GRADED HEARING PROTECTORS

NOVEMBER 2001

**PLEASE NOTE: THIS LIST WILL NOT BE
ADDED TO FURTHER.**

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GLOSSARY

Some of the protectors on this list of Graded Hearing Protectors may no longer be available (for example, all the Grade 1 and 2 earmuffs are no longer offered for sale). However, they have all been included since such devices may still be in circulation, may be still in a satisfactory condition and may be appropriate.

Asymmetrical earmuff:

The shape of the front and back and/or the top and bottom of the earcup is different. If the earcups are not positioned correctly the attenuation of the earmuff may be significantly reduced.

Formable earplug:

The earplug conforms to the shape of the ear canal on fitting

Nape earmuff:

The earmuff is worn with the headband behind the head. A head-strap is normally provided to be worn over the head.

Overhead earmuff:

The earmuff is worn with the headband over the head.

Preformed earplug:

The shape of the earplug does not alter significantly on fitting.

Universal earmuff:

The earmuff can be worn with the headband over the head, behind the head or under the chin.

*Octave Band Attenuation Data:**Mean*

The average attenuation at a particular frequency when measured on a number of people.

SD

The standard deviation of the data obtained from measurements on a number of people. Standard deviation is a statistical value that is a measure of the variation in the results of the measurements.

APV

The assumed protective value of a particular protector at a particular frequency. The value is obtained by subtracting one standard deviation from the mean value.

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| SILICONE CUSTOM MOULDED | Reusable silicone rubber earplug custom-moulded from an individual ear impression. | Mean | 10 | 11 | 9 | 13 | 22 | 28 | 21 |
| | | SD | 5 | 6 | 5 | 5 | 5 | 10 | 9 |
| | | APV | 5 | 5 | 4 | 8 | 17 | 18 | 12 |
| 3M 8773 | Reusable preformed synthetic rubber earplug with multi-sized insertion flanges. | Mean | 16 | 18 | 18 | 19 | 23 | 28 | 35 |
| | | SD | 8 | 9 | 10 | 10 | 8 | 9 | 14 |
| | | APV | 8 | 9 | 8 | 9 | 15 | 19 | 21 |
| BILSOM PROPP-O-PLAST | Disposable formable mineral down earplug enclosed in a semipermeable plastic skin. | Mean | 7 | 9 | 11 | 14 | 22 | 30 | 26 |
| | | SD | 7 | 6 | 6 | 5 | 5 | 6 | 8 |
| | | APV | 0 | 3 | 5 | 9 | 17 | 24 | 18 |
| DEE SEE | Reusable preformed soft plastic earplug with a single insertion flange. | Mean | 12 | 13 | 15 | 17 | 27 | 27 | 23 |
| | | SD | 9 | 9 | 9 | 9 | 8 | 7 | 8 |
| | | APV | 3 | 4 | 6 | 8 | 19 | 20 | 15 |
| GARDWEL EARMATE 1106 | Reusable preformed earplug with multi-sized insertion flanges. | Mean | 15 | 16 | 15 | 16 | 21 | 23 | 29 |
| | | SD | 11 | 11 | 10 | 10 | 10 | 12 | 14 |
| | | APV | 4 | 5 | 5 | 6 | 11 | 11 | 15 |
| MSA EAR DEFENDER II | Reusable preformed silicone rubber earplug with two insertion flanges. | Mean | 15 | 15 | 15 | 18 | 29 | 31 | 25 |
| | | SD | 8 | 8 | 9 | 8 | 11 | 10 | 14 |
| | | APV | 7 | 7 | 6 | 10 | 18 | 21 | 11 |
| RACAL DBA | Reusable preformed silicone rubber earplug. | Mean | 15 | 17 | 17 | 19 | 24 | 35 | 30 |
| | | SD | 10 | 10 | 11 | 11 | 10 | 12 | 12 |
| | | APV | 5 | 7 | 6 | 8 | 14 | 23 | 18 |
| RACAL SONEX | Reusable preformed soft plastic earplug with a single insertion flange. | Mean | 12 | 13 | 15 | 17 | 27 | 27 | 23 |
| | | SD | 9 | 9 | 9 | 9 | 8 | 7 | 8 |
| | | APV | 3 | 4 | 6 | 8 | 19 | 20 | 15 |

GRADE 1: EARMUFFS

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| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| GARDWEL 1104 | Nape earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean | 3 | 5 | 9 | 16 | 23 | 25 | 19 |
| | | SD | 4 | 6 | 5 | 6 | 5 | 5 | 6 |
| | | APV | -1 | -1 | 4 | 10 | 18 | 20 | 13 |
| GARDWEL 1108 | Nape earmuff with asymmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean | 1 | 3 | 9 | 18 | 18 | 23 | 12 |
| | | SD | 2 | 5 | 6 | 5 | 6 | 9 | 6 |
| | | APV | -1 | -2 | 3 | 13 | 12 | 14 | 6 |
| PROTECTOR EMLF 48 | Nape folding earmuff with a spring steel headband. Foam filled ear cushions. | Mean | 4 | 4 | 10 | 18 | 29 | 35 | 21 |
| | | SD | 5 | 5 | 7 | 7 | 6 | 5 | 8 |
| | | APV | -1 | -1 | 3 | 11 | 23 | 30 | 13 |
| SATORY II | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Rubber flange ear cushion. | Mean | 1 | 2 | 7 | 19 | 21 | 27 | 8 |
| | | SD | 3 | 4 | 5 | 6 | 6 | 9 | 8 |
| | | APV | -2 | -2 | 2 | 13 | 15 | 18 | 0 |

GRADE 1: EARMUFF/HELMET COMBINATIONS

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| PELTOR H9PVH | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. | Mean | 5 | 7 | 17 | 26 | 30 | 29 | 20 |
| | | SD | 4 | 8 | 10 | 9 | 8 | 9 | 10 |
| | | APV | 1 | -1 | 7 | 17 | 22 | 20 | 10 |
| Helmet: Protector HC 71 | Foam/fluid filled ear cushions. | | | | | | | | |

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GRADE 2: EARPLUGS

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| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| 3M 1100 | Disposable, formable polymer foam earplug. | Mean | 20 | 24 | 27 | 28 | 33 | 42 | 36 |
| | | SD | 8 | 9 | 11 | 10 | 10 | 9 | 10 |
| | | APV | 12 | 15 | 16 | 18 | 23 | 33 | 26 |
| 3M 1200 / 1205 | Reusable, performed silicone rubber earplug with a reinforcing foam rod. 2 sizes available. | Mean | 29 | 29 | 29 | 30 | 33 | 43 | 45 |
| | | SD | 7 | 6 | 7 | 5 | 5 | 7 | 3 |
| | | APV | 22 | 22 | 22 | 24 | 28 | 36 | 41 |
| 3M 1220 / 1225 | Reusable, performed silicone rubber earplug with a reinforcing foam rod. 2 sizes available. | Mean | 30 | 30 | 31 | 31 | 35 | 43 | 42 |
| | | SD | 7 | 5 | 7 | 4 | 5 | 7 | 6 |
| | | APV | 23 | 25 | 25 | 26 | 30 | 36 | 36 |
| 3M 6300 | Disposable formable polymer foam earplug. | Mean | 20 | 24 | 27 | 28 | 33 | 42 | 36 |
| | | SD | 8 | 9 | 11 | 10 | 10 | 9 | 10 |
| | | APV | 12 | 15 | 16 | 18 | 23 | 33 | 26 |
| AMP PHON-STOP G | Disposable formable polymer foam earplug. | Mean | 19 | 20 | 21 | 22 | 28 | 36 | 40 |
| | | SD | 5 | 6 | 5 | 5 | 5 | 4 | 3 |
| | | APV | 14 | 14 | 16 | 17 | 23 | 32 | 37 |
| AMPLISILENCE MUFFLETS | Disposable formable dual density polymer foam earplug. | Mean | 21 | 20 | 21 | 20 | 28 | 42 | 40 |
| | | SD | 6 | 5 | 6 | 6 | 5 | 6 | 7 |
| | | APV | 15 | 15 | 15 | 14 | 23 | 36 | 33 |
| AEARO REFLEX | Disposable, formable, conical foam earplugs moulded over flexible plastic spigots. The spigots attach the earplugs to a plastic headband. | Mean | 24 | 25 | 25 | 27 | 34 | 44 | 39 |
| | | SD | 5 | 5 | 5 | 5 | 4 | 4 | 7 |
| | | APV | 19 | 20 | 20 | 22 | 31 | 39 | 32 |
| BILSOM 202 (4 All Eardown) | Disposable, formable, mineral down earplug enclosed in a plastic skin. 2 sizes available. | Mean | 26 | 27 | 28 | 29 | 32 | 38 | 40 |
| | | SD | 5 | 6 | 6 | 6 | 4 | 5 | 4 |
| | | APV | 21 | 21 | 22 | 23 | 28 | 33 | 36 |
| BILSOM 303 (4 All Foam) | Disposable, formable, tapered foam earplug. 2 sizes available. | Mean | 37 | 38 | 39 | 36 | 35 | 43 | 46 |
| | | SD | 9 | 9 | 10 | 8 | 5 | 5 | 5 |
| | | APV | 28 | 27 | 29 | 28 | 30 | 38 | 41 |
| BILSOM PERFIT DETECTOR | Reusable, preformed silicone rubber earplug with a single insertion flange. Silicon rubber impregnated with iron to enable detection of earplugs. Head cord. | Mean | 21 | 21 | 22 | 23 | 28 | 30 | 27 |
| | | SD | 9 | 8 | 8 | 5 | 5 | 4 | 7 |
| | | APV | 12 | 13 | 14 | 18 | 23 | 26 | 20 |
| BILSOM PERFIT | Reusable, preformed silicone rubber earplug with a single insertion flange. Head cord. | Mean | 21 | 21 | 22 | 23 | 28 | 30 | 27 |
| | | SD | 9 | 8 | 8 | 5 | 5 | 4 | 7 |
| | | APV | 12 | 13 | 14 | 18 | 23 | 26 | 20 |
| BILSOM SOFT | Disposable formable mineral down earplug enclosed in a plastic skin. | Mean | 17 | 17 | 19 | 20 | 27 | 38 | 31 |
| | | SD | 8 | 7 | 8 | 8 | 6 | 7 | 11 |
| | | APV | 9 | 10 | 11 | 12 | 21 | 31 | 20 |

GRADE 2: EARPLUGS

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| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| BILSOM ULTRASOFT | Disposable formable mineral down earplug enclosed in a plastic skin. | Mean | 24 | 22 | 24 | 25 | 29 | 40 | 37 |
| | | SD | 8 | 6 | 6 | 6 | 6 | 8 | 8 |
| | | APV | 16 | 16 | 18 | 19 | 23 | 32 | 29 |
| BILSOM WHISPER | Reusable, preformed silicone rubber earplug with three insertion flanges. Head cord. | Mean | 26 | 25 | 26 | 24 | 29 | 31 | 40 |
| | | SD | 5 | 5 | 6 | 5 | 4 | 7 | 7 |
| | | APV | 21 | 20 | 20 | 19 | 25 | 24 | 33 |
| E.A.R. CABOFLEX 600 | Reusable conical earplugs attached to a light plastic headband. Earplugs are formable polymer foam enclosed in a rubber membrane. | Mean | 22 | 22 | 24 | 25 | 27 | 36 | 29 |
| | | SD | 11 | 12 | 12 | 11 | 7 | 8 | 12 |
| | | APV | 11 | 10 | 12 | 14 | 20 | 28 | 17 |
| E.A.R. CLASSIC PLATINIUM | Disposable, formable foam earplug. Corded version available. | Mean | 27 | 29 | 31 | 31 | 33 | 40 | 43 |
| | | SD | 9 | 8 | 8 | 6 | 5 | 4 | 9 |
| | | APV | 18 | 21 | 24 | 25 | 28 | 36 | 34 |
| E.A.R. E.A.R. | Disposable formable polymer foam earplug. | Mean | 18 | 20 | 22 | 25 | 28 | 41 | 35 |
| | | SD | 5 | 6 | 6 | 5 | 4 | 7 | 7 |
| | | APV | 13 | 14 | 16 | 20 | 24 | 34 | 28 |
| E.A.R. EXPRESS | Disposable earplug with a hemispherical foam pad attached to a soft plastic stem. | Mean | 15 | 21 | 21 | 26 | 31 | 34 | 33 |
| | | SD | 5 | 5 | 5 | 6 | 5 | 4 | 8 |
| | | APV | 10 | 16 | 16 | 20 | 26 | 30 | 25 |
| E.A.R. TAPERFIT | Disposable formable polymer foam earplug. | Mean | 23 | 24 | 25 | 26 | 29 | 43 | 39 |
| | | SD | 4 | 6 | 6 | 5 | 6 | 4 | 5 |
| | | APV | 19 | 18 | 19 | 21 | 23 | 39 | 34 |
| E.A.R. TRACERS | Reusable, performed, silicone rubber earplug with three insertion flanges. Metal detectable. Head cord. | Mean | 24 | 22 | 23 | 22 | 26 | 34 | 33 |
| | | SD | 6 | 7 | 8 | 8 | 7 | 10 | 10 |
| | | APV | 18 | 15 | 16 | 14 | 19 | 25 | 23 |
| E.A.R. ULTRAFIT | Reusable, silicone rubber earplug with 3 insertion flanges. Corded version available. | Mean | 19 | 18 | 19 | 19 | 25 | 33 | 32 |
| | | SD | 7 | 6 | 6 | 5 | 5 | 11 | 6 |
| | | APV | 12 | 12 | 14 | 15 | 20 | 21 | 26 |
| KOKEN MIMI PET | Reusable formable soft rubber earplug consisting of a water filled bulb. | Mean | 13 | 13 | 18 | 23 | 31 | 36 | 33 |
| | | SD | 7 | 7 | 11 | 11 | 11 | 9 | 12 |
| | | APV | 6 | 6 | 7 | 12 | 20 | 27 | 21 |
| MOLDEX PURA-FOAM | Disposable formable polymer foam earplug. | Mean | 15 | 14 | 16 | 17 | 27 | 32 | 31 |
| | | SD | 7 | 5 | 6 | 4 | 4 | 5 | 6 |
| | | APV | 8 | 9 | 10 | 13 | 23 | 27 | 25 |
| MSA 22324709 & 22371309 | Disposable, formable foam earplug. | Mean | 24 | 25 | 27 | 28 | 32 | 44 | 38 |
| | | SD | 11 | 12 | 11 | 9 | 8 | 6 | 9 |
| | | APV | 13 | 13 | 16 | 19 | 24 | 38 | 29 |
| NORTON COM-FIT | Reusable preformed silicone rubber earplug with multi-sized insertion flanges. | Mean | 21 | 25 | 28 | 27 | 27 | 32 | 35 |
| | | SD | 9 | 9 | 10 | 10 | 8 | 11 | 9 |
| | | APV | 12 | 16 | 18 | 17 | 19 | 21 | 26 |

GRADE 2: EARPLUGS

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| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| NORTON DECIDAMP | Disposable formable polymer foam earplug. | Mean | 21 | 22 | 23 | 24 | 30 | 41 | 37 |
| | | SD | 9 | 9 | 8 | 4 | 7 | 6 | 8 |
| | | APV | 12 | 13 | 15 | 20 | 23 | 35 | 29 |
| NZ SAFETY COM-FIT | Reusable preformed silicone rubber earplug with multi-sized insertion flanges. | Mean | 21 | 25 | 28 | 27 | 27 | 32 | 35 |
| | | SD | 9 | 9 | 10 | 10 | 8 | 11 | 9 |
| | | APV | 12 | 16 | 18 | 17 | 19 | 21 | 26 |
| NZ SAFETY DECIDAMP | Disposable formable polymer foam earplug. | Mean | 21 | 22 | 23 | 24 | 30 | 41 | 37 |
| | | SD | 9 | 9 | 8 | 4 | 7 | 6 | 8 |
| | | APV | 12 | 13 | 15 | 20 | 23 | 35 | 29 |
| ORIS EP 07 | Disposable formable foam earplug. | Mean | 22 | 26 | 29 | 29 | 35 | 41 | 42 |
| | | SD | 6 | 6 | 6 | 5 | 4 | 5 | 7 |
| | | APV | 16 | 20 | 23 | 24 | 31 | 36 | 35 |
| PROTECTOR EP29 | Reusable preformed synthetic rubber earplug with two insertion flanges. | Mean | 22 | 21 | 23 | 26 | 30 | 30 | 31 |
| | | SD | 9 | 8 | 8 | 7 | 6 | 6 | 8 |
| | | APV | 13 | 13 | 15 | 19 | 24 | 24 | 23 |
| PROTECTOR EP35 | Reusable preformed synthetic rubber earplug with single insertion flange. | Mean | 20 | 19 | 20 | 22 | 27 | 28 | 29 |
| | | SD | 9 | 9 | 10 | 8 | 5 | 6 | 5 |
| | | APV | 11 | 10 | 10 | 14 | 22 | 22 | 24 |
| RACAL AIRSOFT | Reusable preformed silicone rubber earplug with three insertion flanges. | Mean | 20 | 19 | 21 | 20 | 24 | 33 | 36 |
| | | SD | 9 | 10 | 9 | 8 | 5 | 10 | 10 |
| | | APV | 11 | 9 | 12 | 12 | 19 | 23 | 26 |
| SMR EARSTOPPER | Reusable preformed air filled synthetic rubber earplug. | Mean | 22 | 22 | 25 | 26 | 31 | 39 | 43 |
| | | SD | 6 | 6 | 7 | 6 | 5 | 6 | 5 |
| | | APV | 16 | 16 | 18 | 20 | 26 | 33 | 38 |

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| DEE SEE MK 4 | Universal earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean | 2 | 8 | 19 | 25 | 33 | 33 | 27 |
| | | SD | 5 | 7 | 7 | 7 | 5 | 4 | 6 |
| | | APV | -3 | 1 | 12 | 18 | 28 | 29 | 21 |
| NORTON MG 19 | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 6 | 9 | 17 | 26 | 30 | 31 | 23 |
| | | SD | 3 | 4 | 4 | 4 | 4 | 8 | 8 |
| | | APV | 3 | 5 | 13 | 22 | 26 | 23 | 15 |
| PELTOR H9F | Overhead folding earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 5 | 8 | 19 | 29 | 30 | 34 | 22 |
| | | SD | 3 | 6 | 6 | 6 | 4 | 6 | 7 |
| | | APV | 2 | 2 | 13 | 23 | 26 | 28 | 15 |
| POLISON EM 66 | Universal folding earmuff with symmetrical earcups centrally attached to a steel and plastic headband. Foam filled ear cushions. | Mean | 5 | 10 | 14 | 23 | 27 | 35 | 20 |
| | | SD | 2 | 2 | 2 | 3 | 4 | 3 | 5 |
| | | APV | 3 | 8 | 12 | 20 | 23 | 32 | 15 |
| WORMALD SILENCER II | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 7 | 10 | 14 | 23 | 28 | 31 | 31 |
| | | SD | 3 | 5 | 8 | 4 | 3 | 5 | 4 |
| | | APV | 4 | 5 | 6 | 19 | 25 | 26 | 27 |
| WORMALD STEROMUFF EM360 | Universal earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean | 6 | 8 | 20 | 32 | 32 | 30 | 26 |
| | | SD | 3 | 5 | 6 | 5 | 5 | 4 | 4 |
| | | APV | 3 | 3 | 14 | 27 | 27 | 26 | 22 |

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| SUNGROW RR44 MK I | Universal communication earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. Automatic volume limiting. Plug in and cordless models available. | Mean | 7 | 10 | 16 | 21 | 26 | 35 | 32 |
| | | SD | 6 | 8 | 4 | 5 | 4 | 3 | 5 |
| | | APV | 1 | 2 | 12 | 16 | 22 | 32 | 27 |
| | | | | | | | | | |

GRADE 2: EARMUFF/HELMET COMBINATIONS

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| GARDWEL 1120 | Earmuff assembly clips onto gutter of safety helmet. Earcups are yoke mounted. Foam filled ear cushions. | Mean | 4 | 7 | 15 | 20 | 25 | 32 | 28 |
| | | SD | 2 | 4 | 5 | 4 | 4 | 4 | 5 |
| | | APV | 2 | 3 | 10 | 16 | 21 | 28 | 23 |
| MSA COMFO 600 Helmet: MSA | Earmuffs suspended from a retaining ring assembly that adjusts to safety helmet circumference. Earcups are centrally mounted. Foam filled ear cushions. | Mean | 7 | 8 | 19 | 25 | 30 | 33 | 27 |
| | | SD | 3 | 3 | 6 | 5 | 7 | 5 | 5 |
| | | APV | 4 | 5 | 13 | 20 | 23 | 28 | 22 |
| NZ SAFETY 4505 Helmet: NZ Safety 410 | Earmuff assembly clips into a slot on the safety helmet. Asymmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean | 6 | 7 | 13 | 25 | 29 | 32 | 26 |
| | | SD | 6 | 5 | 3 | 3 | 3 | 2 | 6 |
| | | APV | 0 | 2 | 10 | 22 | 26 | 30 | 20 |
| PROTECTOR EML60 Helmet: Protector HC41 | Earmuff assembly permanently attached to safety helmet. Earcups are centrally mounted. Foam filled ear cushions. | Mean | 9 | 9 | 16 | 23 | 27 | 30 | 27 |
| | | SD | 5 | 5 | 5 | 5 | 6 | 4 | 4 |
| | | APV | 4 | 4 | 11 | 18 | 21 | 26 | 23 |
| PROTECTOR EML71 Helmet: Protector HC41 | Earmuff assembly clips into a slot on the safety helmet. Symmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean | 4 | 9 | 14 | 16 | 22 | 33 | 24 |
| | | SD | 3 | 3 | 4 | 3 | 3 | 6 | 7 |
| | | APV | 1 | 6 | 10 | 13 | 19 | 27 | 17 |
| PROTECTOR EMM71 Helmet: Protector HC71 | Earmuff assembly clips into a slot on the safety helmet. Symmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean | 5 | 11 | 21 | 24 | 27 | 26 | 21 |
| | | SD | 3 | 3 | 4 | 2 | 8 | 7 | 5 |
| | | APV | 2 | 8 | 17 | 22 | 19 | 19 | 16 |

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GRADE 3: EARMUFFS

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| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| BILSOM COMPACT 2470 | Nape earmuff with asymmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean SD APV | 9 4 5 | 11 3 8 | 19 3 16 | 26 3 23 | 31 3 28 | 38 4 34 | 37 4 33 |
| BILSOM LOTON 2403 | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean SD APV | 8 3 5 | 10 3 7 | 20 3 17 | 32 4 28 | 34 5 29 | 35 4 31 | 28 5 23 |
| C.I.G. MIL 455249 | Overhead folding earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 12 6 6 | 13 5 8 | 16 5 11 | 29 8 21 | 32 6 26 | 40 9 31 | 27 8 19 |
| GALAXY 10 | Universal earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean SD APV | 3 3 0 | 12 3 9 | 20 3 17 | 22 2 20 | 27 3 24 | 42 2 40 | 29 3 26 |
| GARDWEL 1100 | Overhead earmuff with symmetrical earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 7 4 3 | 12 5 7 | 21 4 17 | 26 3 23 | 29 4 25 | 32 6 26 | 26 6 20 |
| GARDWEL 1130 | Universal earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean SD APV | 4 3 1 | 12 2 10 | 20 2 18 | 24 3 21 | 28 2 26 | 40 2 38 | 31 3 28 |
| GARDWEL 1140 | Universal earmuff with asymmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean SD APV | 1 2 -1 | 12 3 9 | 22 2 20 | 24 2 22 | 27 2 25 | 37 3 34 | 33 3 30 |
| JAMES NORTH RB 870 INTERCEPTOR | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean SD APV | 7 4 3 | 12 6 6 | 21 5 16 | 30 5 25 | 30 4 26 | 32 5 27 | 25 4 21 |
| JSP MALLORY | Overhead earmuff with earcups attached to a vinyl-covered headband by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 9 4 5 | 16 5 11 | 23 4 19 | 32 3 29 | 33 4 29 | 32 4 28 | 30 7 23 |
| JSP J-MUFF | Overhead earmuff with earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean SD APV | 11 3 7 | 13 3 10 | 22 3 20 | 32 4 28 | 31 4 28 | 32 4 28 | 30 5 25 |
| MARQUIP MUFWEL | Universal earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean SD APV | 3 3 0 | 12 3 9 | 20 3 17 | 22 2 20 | 27 3 24 | 42 2 40 | 29 3 26 |

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| MSA HUSHMUFF | Universal earmuff with asymmetrical earcups centrally attached reinforced plastic headband. Foam filled ear cushions. | Mean | 7 | 10 | 22 | 28 | 34 | 35 | 27 |
| | | SD | 9 | 3 | 4 | 3 | 4 | 8 | 3 |
| | | APV | -2 | 7 | 18 | 25 | 30 | 27 | 24 |
| NORTON MR 22 | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 8 | 10 | 20 | 32 | 34 | 35 | 28 |
| | | SD | 3 | 3 | 3 | 4 | 5 | 4 | 5 |
| | | APV | 5 | 7 | 17 | 28 | 29 | 31 | 23 |
| NZ SAFETY 4510 | Universal earmuff with asymmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 7 | 8 | 22 | 26 | 34 | 35 | 36 |
| | | SD | 3 | 2 | 3 | 3 | 3 | 3 | 3 |
| | | APV | 4 | 6 | 19 | 23 | 31 | 32 | 33 |
| PELTOR H6A/v | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 8 | 13 | 20 | 29 | 34 | 35 | 32 |
| | | SD | 2 | 2 | 3 | 4 | 3 | 3 | 6 |
| | | APV | 6 | 11 | 17 | 25 | 31 | 32 | 26 |
| PELTOR H6B/v | Nape earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 5 | 11 | 19 | 28 | 31 | 34 | 29 |
| | | SD | 4 | 4 | 4 | 6 | 4 | 4 | 7 |
| | | APV | 1 | 7 | 15 | 22 | 27 | 30 | 22 |
| PELTOR H6F/v | Overhead folding earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 6 | 9 | 17 | 32 | 37 | 38 | 26 |
| | | SD | 2 | 3 | 3 | 3 | 4 | 3 | 6 |
| | | APV | 4 | 6 | 14 | 29 | 33 | 35 | 20 |
| POLISON EM 62 | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 5 | 11 | 19 | 28 | 27 | 36 | 27 |
| | | SD | 2 | 2 | 3 | 3 | 6 | 2 | 2 |
| | | APV | 3 | 9 | 16 | 25 | 21 | 34 | 25 |
| POLISON EM 68 BLUE EAGLE | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 8 | 17 | 25 | 36 | 26 | 26 | 23 |
| | | SD | 2 | 4 | 3 | 4 | 4 | 3 | 5 |
| | | APV | 6 | 13 | 22 | 32 | 22 | 23 | 18 |
| PROTECTOR EMLU 60 | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. Headstrap. | Mean | 5 | 13 | 18 | 27 | 29 | 35 | 28 |
| | | SD | 3 | 3 | 3 | 4 | 6 | 6 | 7 |
| | | APV | 2 | 10 | 15 | 23 | 23 | 29 | 21 |
| RACAL SONOGARD | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Liquid filled ear cushions. | Mean | 10 | 13 | 22 | 34 | 38 | 32 | 19 |
| | | SD | 6 | 7 | 8 | 7 | 6 | 6 | 9 |
| | | APV | 4 | 6 | 14 | 27 | 32 | 26 | 10 |
| RACAL SUPAMUFF II | Universal earmuff with asymmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 8 | 11 | 19 | 23 | 27 | 38 | 33 |
| | | SD | 4 | 3 | 3 | 3 | 3 | 4 | 5 |
| | | APV | 4 | 8 | 16 | 20 | 24 | 34 | 28 |

GRADE 3: EARMUFFS

ARCHIVED

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| SILENTA BEL | Universal earmuff with asymmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 6 | 9 | 17 | 31 | 31 | 39 | 30 |
| | | SD | 3 | 4 | 3 | 5 | 3 | 5 | 8 |
| | | APV | 3 | 5 | 14 | 26 | 28 | 34 | 22 |
| SILENTA BEL 2 | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 11 | 12 | 22 | 31 | 32 | 35 | 33 |
| | | SD | 3 | 2 | 3 | 3 | 3 | 4 | 4 |
| | | APV | 8 | 10 | 19 | 28 | 29 | 31 | 29 |
| SILENTA MIL | Overhead folding earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 9 | 9 | 15 | 28 | 29 | 35 | 31 |
| | | SD | 4 | 2 | 3 | 4 | 3 | 5 | 4 |
| | | APV | 5 | 7 | 12 | 24 | 26 | 30 | 27 |
| SILENTA SPORT MIL | Overhead, folding earmuff with earcups attached to a plastic/steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 11 | 11 | 21 | 22 | 34 | 39 | 32 |
| | | SD | 2 | 2 | 3 | 3 | 3 | 2 | 4 |
| | | APV | 9 | 9 | 18 | 19 | 31 | 37 | 28 |
| SILENTA UNIVERSAL | Universal earmuff with asymmetric earcups centrally attached to a vinyl-covered steel headband. Foam filled ear cushions. | Mean | 9 | 14 | 20 | 32 | 34 | 39 | 30 |
| | | SD | 4 | 2 | 3 | 4 | 4 | 5 | 5 |
| | | APV | 5 | 12 | 17 | 28 | 30 | 34 | 25 |
| STRATA-UVEX STRATAMUFF | Universal earmuff with circular earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 7 | 10 | 20 | 24 | 34 | 43 | 36 |
| | | SD | 3 | 2 | 3 | 3 | 4 | 5 | 7 |
| | | APV | 4 | 8 | 17 | 21 | 30 | 38 | 29 |

GRADE 3: COMMUNICATION EARMUFFS

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| BILSOM COMFLEX 2322 UCW | Universal communication earmuff with earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. Automatic volume limiting. Plug-in type. Headstrap. | Mean | 14 | 18 | 26 | 26 | 28 | 44 | 38 |
| | | SD | 3 | 2 | 3 | 3 | 3 | 4 | 2 |
| | | APV | 11 | 16 | 23 | 23 | 25 | 40 | 36 |
| ERICSSON FREESET | Overhead earmuff with earcups centrally attached to a plastic headband. Each earcup has an internal earphone, and a noise-cancelling boom microphone is attached to the right earcup. Foam filled ear cushions. | Mean | 7 | 15 | 25 | 27 | 28 | 38 | 35 |
| | | SD | 2 | 4 | 6 | 4 | 4 | 5 | 8 |
| | | APV | 5 | 10 | 19 | 23 | 24 | 33 | 28 |
| MOD/COMM RADIO/COMM | Universal communication earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. Automatic volume limiting. Earmuff is attached to separate radio transmitter/receiver by a cord. | Mean | 11 | 16 | 21 | 23 | 27 | 34 | 30 |
| | | SD | 2 | 2 | 3 | 4 | 3 | 3 | 5 |
| | | APV | 9 | 14 | 18 | 19 | 24 | 31 | 25 |
| MOTOROLA NMN-6064 | Nape communication earmuff with asymmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. Automatic volume limiting. Earmuff plugs into separate radio transmitter/receiver. Headstrap. | Mean | 14 | 18 | 26 | 26 | 28 | 44 | 38 |
| | | SD | 3 | 2 | 3 | 3 | 3 | 4 | 2 |
| | | APV | 11 | 16 | 23 | 23 | 25 | 40 | 36 |
| SUNGROW ERC 27/28 MK II | Universal communication earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. Automatic volume limiting. Plug in and cordless models available. Headstrap. | Mean | 11 | 16 | 21 | 23 | 27 | 34 | 30 |
| | | SD | 2 | 2 | 3 | 4 | 3 | 3 | 5 |
| | | APV | 9 | 14 | 18 | 19 | 24 | 31 | 25 |

ARCHIVED

GRADE 3: EARMUFF/HELMET COMBINATIONS

ARCHIVED

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| BILSOM BLUE 2442 Helmet: NZ Safety 410 | Earmuff assembly clips into a slot on the safety helmet. Symmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 8 5 3 | 9 3 6 | 18 2 16 | 28 3 25 | 31 3 28 | 39 5 34 | 33 5 28 |
| BILSOM COMFORT Helmet: NZ Safety 410 | Earmuff assembly clips into a slot on the safety helmet. Symmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 4 3 1 | 11 5 6 | 20 4 16 | 28 6 22 | 30 6 24 | 33 4 29 | 31 7 24 |
| HUSQVARNA 5056653 Helmet: Balance | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 8 5 3 | 14 5 9 | 19 4 15 | 28 4 24 | 30 7 23 | 33 6 27 | 29 6 23 |
| JONSERED Helmet: Jonsered | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 11 3 8 | 17 5 12 | 21 5 16 | 27 4 23 | 31 5 26 | 36 6 30 | 32 9 23 |
| NORTON 4525 Helmet: NZ Safety 410 | Earmuff assembly clips into a slot on the safety helmet. Asymmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 15 5 10 | 14 6 8 | 19 4 15 | 29 5 24 | 29 5 24 | 34 7 27 | 29 6 23 |
| NORTON HMB 22 Helmet: Norton | Earmuff assembly clips into a slot on the safety helmet. Symmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 8 4 4 | 12 3 9 | 19 5 14 | 28 4 24 | 31 4 27 | 36 5 31 | 31 5 26 |
| PELTOR H6P3a Helmet: Protector HC 71 | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam/fluid filled ear cushions. | Mean SD APV | 5 4 1 | 9 4 5 | 22 5 17 | 28 5 23 | 33 4 29 | 35 3 32 | 34 4 30 |
| PELTOR H6PVH Helmet: Protector HC 71 | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam/fluid filled ear cushions. | Mean SD APV | 5 4 1 | 9 4 5 | 22 5 17 | 28 5 23 | 33 4 29 | 35 3 32 | 34 4 30 |
| PELTOR H10P3g Helmet: Protector HC 71 | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 12 6 6 | 18 7 11 | 28 7 21 | 36 6 30 | 33 6 27 | 35 9 26 | 27 10 17 |
| PROTECTOR EM 46 Helmet: Protector HC 41 | Earmuff assembly is permanently attached to the safety helmet. Symmetrical earcups are attached by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 14 6 8 | 14 5 9 | 21 5 16 | 29 6 23 | 28 5 23 | 28 4 24 | 24 4 20 |

GRADE 3: EARMUFF/HELMET COMBINATIONS

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| PROTECTOR EM 46 | Earmuff assembly clips into a slot on the safety helmet. Symmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean | 6 | 12 | 19 | 27 | 28 | 26 | 25 |
| | | SD | 4 | 5 | 6 | 4 | 3 | 4 | 3 |
| Helmet: Protector HC 71 | | APV | 2 | 7 | 13 | 23 | 25 | 22 | 22 |
| SILENTA BEL-CAP | Earmuff assembly clips on to the safety helmet. Asymmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean | 9 | 13 | 18 | 25 | 31 | 39 | 33 |
| | | SD | 3 | 3 | 4 | 4 | 5 | 6 | 5 |
| Helmet: C.I.G. H46 | | APV | 6 | 10 | 14 | 21 | 26 | 33 | 28 |
| SILENTA BEL-CAP | Earmuff assembly clips into a slot on the safety helmet. Asymmetrical earcups are centrally mounted. Foam filled air cushions. | Mean | 9 | 13 | 18 | 25 | 31 | 39 | 33 |
| | | SD | 3 | 3 | 4 | 4 | 5 | 6 | 5 |
| Helmet: Wormald H46 | | APV | 6 | 10 | 14 | 21 | 26 | 33 | 28 |

ARCHIVED

GRADE 4: EARMUFFS

ARCHIVED

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| 3M 1435 | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 12 | 17 | 22 | 30 | 29 | 35 | 34 |
| | | SD | 4 | 3 | 3 | 3 | 4 | 4 | 5 |
| | | APV | 8 | 15 | 19 | 27 | 25 | 31 | 30 |
| 3M 1440 | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 11 | 19 | 26 | 29 | 32 | 37 | 39 |
| | | SD | 3 | 2 | 3 | 3 | 2 | 3 | 4 |
| | | APV | 8 | 17 | 23 | 26 | 30 | 34 | 35 |
| ALLSAFE HS22 | Overhead earmuff with earcups attached to a plastic headband. Foam filled ear cushions. | Mean | 16 | 18 | 28 | 38 | 35 | 34 | 36 |
| | | SD | 4 | 3 | 3 | 3 | 3 | 4 | 3 |
| | | APV | 11 | 15 | 25 | 35 | 33 | 30 | 33 |
| BILSOM 707 | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Each earcup has an external microphone, amplification and sound level limiting electronics, and an internal earphone. Foam filled ear cushions. | Mean | 14 | 20 | 29 | 34 | 31 | 42 | 35 |
| | | SD | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | | APV | 11 | 17 | 26 | 31 | 28 | 38 | 31 |
| BILSOM 715 | Folding earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 14 | 15 | 24 | 32 | 36 | 32 | 32 |
| | | SD | 3 | 2 | 3 | 2 | 5 | 6 | 6 |
| | | APV | 11 | 13 | 21 | 30 | 31 | 26 | 26 |
| BILSOM 717 | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 14 | 16 | 25 | 35 | 35 | 38 | 37 |
| | | SD | 3 | 2 | 3 | 2 | 3 | 3 | 4 |
| | | APV | 11 | 14 | 22 | 33 | 32 | 35 | 33 |
| BILSOM 797 | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Built in stereo FM radio receiver. Foam filled ear cushions. | Mean | 14 | 20 | 29 | 34 | 31 | 42 | 35 |
| | | SD | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | | APV | 11 | 17 | 26 | 31 | 28 | 38 | 31 |
| BILSOM BLUE 2450 MK II | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 12 | 13 | 21 | 35 | 36 | 40 | 33 |
| | | SD | 3 | 2 | 3 | 4 | 4 | 4 | 4 |
| | | APV | 9 | 11 | 18 | 31 | 32 | 36 | 29 |
| BILSOM POCKET 2428 | Folding earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 12 | 15 | 24 | 34 | 34 | 41 | 39 |
| | | SD | 3 | 3 | 3 | 4 | 4 | 5 | 7 |
| | | APV | 9 | 12 | 21 | 30 | 30 | 36 | 32 |
| BLUE EAGLE EM98 | Universal earmuff with earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 9 | 16 | 22 | 31 | 31 | 33 | 28 |
| | | SD | 3 | 3 | 3 | 3 | 4 | 3 | 4 |
| | | APV | 6 | 12 | 19 | 29 | 27 | 30 | 25 |

GRADE 4: EARMUFFS

ARCHIVED

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| ELVEX HB-25 | Universal earmuff with earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 13 | 18 | 27 | 36 | 33 | 33 | 33 |
| | | SD | 3 | 2 | 3 | 3 | 4 | 3 | 3 |
| | | APV | 10 | 16 | 24 | 32 | 29 | 30 | 30 |
| HELLBERG MKI STD 26046 | Universal earmuff with asymmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 11 | 16 | 23 | 33 | 31 | 28 | 29 |
| | | SD | 4 | 4 | 3 | 4 | 3 | 3 | 5 |
| | | APV | 7 | 12 | 20 | 29 | 28 | 25 | 24 |
| HELLBERG MARK 8 (11008) | Overhead earmuff with earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 11 | 18 | 27 | 33 | 34 | 32 | 37 |
| | | SD | 3 | 3 | 2 | 2 | 4 | 2 | 4 |
| | | APV | 8 | 15 | 25 | 31 | 30 | 30 | 33 |
| HELLBERG POPULAR 26045 | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 14 | 13 | 23 | 32 | 37 | 33 | 29 |
| | | SD | 2 | 3 | 3 | 3 | 4 | 3 | 4 |
| | | APV | 12 | 10 | 20 | 29 | 33 | 30 | 25 |
| INTEGO GOGGLE MUFF | Earmuff with asymmetrical earcups centrally attached to goggle side arms. Foam filled ear cushions. | Mean | 12 | 17 | 24 | 30 | 33 | 34 | 31 |
| | | SD | 3 | 4 | 3 | 3 | 3 | 4 | 7 |
| | | APV | 9 | 13 | 21 | 27 | 30 | 30 | 24 |
| INTEGO SPECTACLE MUFF | Earmuff with asymmetrical earcups centrally attached to spectacle side arms. Foam filled ear cushions. | Mean | 12 | 17 | 24 | 31 | 33 | 32 | 33 |
| | | SD | 3 | 3 | 2 | 2 | 3 | 3 | 4 |
| | | APV | 9 | 14 | 22 | 29 | 30 | 29 | 29 |
| MSA NOISEFOE MK V | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 9 | 16 | 28 | 36 | 36 | 32 | 29 |
| | | SD | 4 | 4 | 4 | 5 | 5 | 3 | 6 |
| | | APV | 5 | 12 | 24 | 31 | 31 | 29 | 23 |
| NORTON MB 27 | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 9 | 15 | 25 | 33 | 35 | 38 | 32 |
| | | SD | 3 | 3 | 3 | 4 | 5 | 3 | 5 |
| | | APV | 6 | 12 | 22 | 29 | 30 | 35 | 27 |
| NORTON SOUND STIFLER | Universal earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean | 10 | 14 | 27 | 34 | 34 | 40 | 29 |
| | | SD | 4 | 2 | 6 | 7 | 7 | 6 | 5 |
| | | APV | 6 | 12 | 21 | 27 | 27 | 34 | 24 |
| NZ SAFETY 4530 | Universal earmuff with asymmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean | 9 | 17 | 25 | 33 | 35 | 39 | 36 |
| | | SD | 4 | 5 | 5 | 5 | 4 | 3 | 4 |
| | | APV | 5 | 12 | 20 | 28 | 31 | 36 | 32 |
| NZ SAFETY 4580 UNIMUFF | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 9 | 14 | 25 | 36 | 33 | 38 | 29 |
| | | SD | 3 | 3 | 2 | 4 | 4 | 7 | 3 |
| | | APV | 6 | 11 | 23 | 32 | 29 | 31 | 26 |
| ORIS EM 3144 MOSQUITO | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 12 | 18 | 27 | 32 | 33 | 33 | 32 |
| | | SD | 3 | 3 | 2 | 3 | 3 | 2 | 4 |
| | | APV | 9 | 15 | 25 | 29 | 30 | 31 | 28 |

GRADE 4: EARMUFFS

ARCHIVED

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| ORIS EM 2262 PHANTOM | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 12 | 20 | 30 | 38 | 32 | 34 | 30 |
| | | SD | 3 | 2 | 2 | 2 | 4 | 3 | 4 |
| | | APV | 9 | 18 | 28 | 36 | 28 | 31 | 26 |
| ORIS EM 1282 STEALTH | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 14 | 23 | 31 | 38 | 31 | 30 | 30 |
| | | SD | 3 | 2 | 2 | 2 | 4 | 2 | 4 |
| | | APV | 11 | 21 | 29 | 36 | 27 | 28 | 26 |
| PELTOR H3A | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 10 | 19 | 30 | 35 | 33 | 36 | 34 |
| | | SD | 2 | 3 | 3 | 3 | 3 | 3 | 4 |
| | | APV | 8 | 16 | 27 | 32 | 30 | 33 | 30 |
| PELTOR H61F/V | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 12 | 17 | 27 | 31 | 33 | 42 | 36 |
| | | SD | 5 | 3 | 3 | 2 | 2 | 4 | 4 |
| | | APV | 7 | 14 | 24 | 29 | 31 | 38 | 32 |
| PELTOR H7A | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 10 | 18 | 30 | 35 | 35 | 34 | 31 |
| | | SD | 4 | 5 | 4 | 4 | 3 | 3 | 6 |
| | | APV | 6 | 13 | 26 | 31 | 32 | 31 | 25 |
| PELTOR H7B/v | Nape earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 12 | 17 | 26 | 35 | 35 | 30 | 24 |
| | | SD | 5 | 6 | 5 | 5 | 7 | 5 | 4 |
| | | APV | 7 | 11 | 21 | 30 | 28 | 25 | 20 |
| PELTOR HTRX7A | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Built in FM radio receiver. Foam/fluid filled ear cushions. | Mean | 19 | 24 | 31 | 37 | 32 | 36 | 38 |
| | | SD | 4 | 3 | 3 | 3 | 3 | 4 | 4 |
| | | APV | 15 | 21 | 28 | 34 | 29 | 32 | 34 |
| PELTOR HTRXS7A | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Built in FM stereo radio receiver. Foam/fluid filled ear cushions. | Mean | 19 | 24 | 31 | 37 | 32 | 36 | 38 |
| | | SD | 4 | 3 | 3 | 3 | 3 | 4 | 4 |
| | | APV | 15 | 21 | 28 | 34 | 29 | 32 | 34 |
| PROTECTOR EM 42 | Overhead earmuff with symmetrical earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 12 | 16 | 25 | 35 | 33 | 26 | 27 |
| | | SD | 3 | 2 | 2 | 3 | 5 | 5 | 3 |
| | | APV | 9 | 14 | 23 | 32 | 28 | 21 | 24 |
| PROTECTOR EMM 11 | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 11 | 14 | 23 | 32 | 27 | 37 | 32 |
| | | SD | 3 | 2 | 3 | 3 | 2 | 4 | 4 |
| | | APV | 8 | 12 | 20 | 29 | 25 | 33 | 28 |

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| PROTECTOR EMU 44 | Universal earmuff with symmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. Headstrap. | Mean | 9 | 17 | 28 | 34 | 32 | 38 | 31 |
| | | SD | 3 | 4 | 4 | 4 | 5 | 4 | 5 |
| | | APV | 6 | 13 | 24 | 30 | 27 | 34 | 26 |
| PROTECTOR EMU44P | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 11 | 17 | 29 | 38 | 32 | 37 | 33 |
| | | SD | 3 | 3 | 4 | 5 | 5 | 3 | 4 |
| | | APV | 8 | 14 | 25 | 33 | 27 | 34 | 29 |
| RACAL CLASSIC 1 | Overhead earmuff with earcups centrally attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 10 | 15 | 23 | 33 | 34 | 37 | 33 |
| | | SD | 3 | 2 | 3 | 3 | 3 | 2 | 6 |
| | | APV | 7 | 13 | 20 | 30 | 31 | 35 | 27 |
| RACAL CLASSIC 2 | Overhead earmuff with earcups centrally attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 11 | 20 | 26 | 33 | 39 | 38 | 36 |
| | | SD | 3 | 2 | 3 | 3 | 4 | 3 | 5 |
| | | APV | 8 | 18 | 23 | 30 | 35 | 35 | 31 |
| RACAL ULTRAMUFF | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. Headstrap. | Mean | 9 | 14 | 23 | 33 | 33 | 34 | 25 |
| | | SD | 2 | 3 | 5 | 3 | 4 | 3 | 3 |
| | | APV | 7 | 11 | 18 | 30 | 29 | 31 | 22 |
| SILENTA ERGO | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 14 | 17 | 29 | 28 | 37 | 34 | 34 |
| | | SD | 3 | 4 | 2 | 3 | 3 | 3 | 4 |
| | | APV | 11 | 13 | 27 | 25 | 34 | 31 | 30 |
| SILENTA ERGO II | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 14 | 18 | 27 | 37 | 35 | 36 | 29 |
| | | SD | 6 | 6 | 6 | 6 | 5 | 7 | 9 |
| | | APV | 8 | 12 | 21 | 31 | 30 | 29 | 20 |
| SILENTA SUPER MIL | Folding earmuff with asymmetrical earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 12 | 15 | 23 | 27 | 36 | 38 | 33 |
| | | SD | 3 | 2 | 3 | 2 | 4 | 4 | 3 |
| | | APV | 9 | 13 | 20 | 25 | 32 | 34 | 30 |

GRADE 4: COMMUNICATION EARMUFFS

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| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| BILSOM 777 TRANSCIVER | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Each earcup has an internal earphone, and a noise-cancelling boom microphone is attached to the left earcup. Foam filled ear cushions. | Mean | 14 | 20 | 29 | 34 | 31 | 42 | 35 |
| | | SD | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | | APV | 11 | 17 | 26 | 31 | 28 | 38 | 31 |
| BILSOM 787 FLEX | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Each earcup has an internal earphone, and sound level limiting electronics. Foam filled ear cushions. | Mean | 14 | 20 | 29 | 34 | 31 | 42 | 35 |
| | | SD | 3 | 3 | 3 | 3 | 3 | 4 | 4 |
| | | APV | 11 | 17 | 26 | 31 | 28 | 38 | 31 |

GRADE 4: EARMUFF/HELMET COMBINATIONS

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| BILSOM 718 Helmet: MSA | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 12 3 9 | 17 3 14 | 26 3 23 | 33 3 30 | 35 4 31 | 35 3 32 | 35 4 31 |
| BILSOM 718 Helmet: NZ Safety 410 | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam filled ear cushions. | Mean SD APV | 12 3 9 | 17 3 14 | 26 3 23 | 33 3 30 | 35 4 31 | 35 3 32 | 35 4 31 |
| ELVEX HM60 Helmet: NZ Safety 410 | Earmuff assembly clips into a slot on the safety helmet. Asymmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 14 4 10 | 18 2 16 | 26 4 22 | 29 3 26 | 34 4 30 | 35 3 32 | 32 5 27 |
| HELLBERG MK X SUPER Helmet: Blue Eagle | Earmuff assembly clips onto the gutter of the safety helmet. Earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 12 3 9 | 17 2 15 | 27 3 24 | 34 4 30 | 36 4 32 | 38 4 34 | 35 5 30 |
| HELLBERG MK X SUPER Helmet: MSA | Earmuff assembly clips onto the gutter of the safety helmet. Earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 11 3 8 | 17 3 14 | 26 3 23 | 34 3 31 | 36 3 33 | 40 3 37 | 34 4 30 |
| HELLBERG MARK 8 (21008) Helmet: MSA | Earmuff assembly clips into a slot on the safety helmet. Earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 12 3 9 | 16 3 13 | 28 3 25 | 32 3 29 | 35 4 31 | 31 3 28 | 37 2 35 |
| JSP DONNINGTON Helmet: MSA | Earmuff assembly clips into a slot on the safety helmet. Asymmetrical earcups are centrally mounted. Foam filled ear cushions. | Mean SD APV | 13 3 10 | 18 4 14 | 25 3 22 | 31 3 28 | 33 4 29 | 32 6 26 | 31 6 25 |
| PELTOR H7P3 Helmet: MSA | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam/fluid filled ear cushions. | Mean SD APV | 10 4 6 | 18 4 14 | 29 5 24 | 34 2 32 | 34 4 30 | 34 4 30 | 32 5 27 |
| PELTOR H7P3b Helmet: Protector HC 71 | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam/fluid filled ear cushions. | Mean SD APV | 9 3 6 | 15 5 10 | 27 3 24 | 31 4 27 | 34 4 30 | 33 5 28 | 27 6 21 |
| PELTOR H7P3e Helmet: NZ Safety 410 | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam/fluid filled ear cushions. | Mean SD APV | 8 2 6 | 17 3 14 | 29 4 25 | 33 2 31 | 35 4 31 | 32 3 29 | 28 5 23 |

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GRADE 4: EARMUFF/HELMET COMBINATIONS

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| PELTOR H7P3e | Earmuff assembly is permanently attached to the safety helmet. Earcups are attached by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 9 | 15 | 27 | 31 | 34 | 33 | 27 |
| SD | | 3 | 5 | 3 | 4 | 4 | 5 | 6 | |
| APV | | 6 | 10 | 24 | 27 | 30 | 28 | 21 | |
| PELTOR H7PVH | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 9 | 15 | 27 | 31 | 34 | 33 | 27 |
| SD | | 3 | 5 | 3 | 4 | 4 | 5 | 6 | |
| APV | | 6 | 10 | 24 | 27 | 30 | 28 | 21 | |

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| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|--|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| 3M 1420 | Over head earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 17 | 22 | 30 | 35 | 34 | 37 | 37 |
| | | SD | 4 | 3 | 2 | 3 | 2 | 4 | 5 |
| | | APV | 13 | 19 | 28 | 32 | 31 | 33 | 32 |
| BILSOM 727 | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 14 | 20 | 30 | 36 | 36 | 40 | 37 |
| | | SD | 3 | 3 | 3 | 3 | 2 | 4 | 4 |
| | | APV | 11 | 17 | 27 | 33 | 34 | 36 | 33 |
| BILSOM 737 | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Liquid filled ear cushions. | Mean | 15 | 20 | 28 | 35 | 35 | 36 | 34 |
| | | SD | 2 | 2 | 3 | 2 | 2 | 3 | 5 |
| | | APV | 13 | 18 | 25 | 33 | 33 | 33 | 29 |
| BILSON 747 | Overhead earmuff with earcups attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 23 | 28 | 34 | 34 | 31 | 33 | 35 |
| | | SD | 5 | 4 | 3 | 3 | 3 | 3 | 4 |
| | | APV | 18 | 24 | 31 | 31 | 28 | 30 | 31 |
| BILSOM VIKING 2318 MK I | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. Headstrap. | Mean | 12 | 21 | 33 | 35 | 37 | 36 | 30 |
| | | SD | 3 | 4 | 3 | 4 | 6 | 4 | 5 |
| | | APV | 9 | 17 | 30 | 31 | 31 | 32 | 25 |
| BILSOM VIKING 2421 MK III | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. Headstrap. | Mean | 15 | 20 | 30 | 33 | 37 | 41 | 36 |
| | | SD | 3 | 2 | 4 | 2 | 4 | 3 | 4 |
| | | APV | 12 | 18 | 26 | 31 | 33 | 38 | 32 |
| CLARK 310 | Universal earmuff with asymmetrical earcups centrally attached to a spring steel headband. Foam filled ear cushions. | Mean | 11 | 19 | 30 | 39 | 37 | 38 | 31 |
| | | SD | 2 | 3 | 3 | 3 | 4 | 6 | 7 |
| | | APV | 9 | 16 | 27 | 36 | 33 | 32 | 24 |
| HELLBERG MK V SPECIAL 26047 | Universal earmuff with asymmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 17 | 18 | 28 | 39 | 37 | 39 | 35 |
| | | SD | 2 | 2 | 3 | 4 | 5 | 3 | 4 |
| | | APV | 15 | 16 | 25 | 35 | 32 | 36 | 31 |
| HELLBERG MK X SUPER 26049 | Universal earmuff with asymmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 17 | 20 | 29 | 37 | 39 | 39 | 38 |
| | | SD | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | APV | 14 | 17 | 26 | 34 | 36 | 36 | 35 |
| HELLBERG MARK 10 11010 | Universal earmuff with earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 14 | 19 | 30 | 36 | 35 | 36 | 40 |
| | | SD | 3 | 2 | 3 | 3 | 3 | 3 | 4 |
| | | APV | 11 | 17 | 27 | 33 | 32 | 33 | 36 |
| JSP BROOKLANDS | Overhead earmuff with asymmetrical earcups centrally attached to a vinyl-covered plastic headband. Foam filled ear cushions. | Mean | 15 | 21 | 32 | 38 | 34 | 40 | 40 |
| | | SD | 4 | 3 | 4 | 5 | 3 | 6 | 5 |
| | | APV | 11 | 18 | 28 | 33 | 31 | 34 | 35 |

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| JSP LE MANS | Overhead earmuff with earcups attached to a vinyl-covered steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 14 | 23 | 31 | 37 | 36 | 37 | 39 |
| | | SD | 3 | 4 | 4 | 4 | 4 | 3 | 3 |
| | | APV | 11 | 19 | 27 | 33 | 32 | 34 | 36 |
| JSP MONACO | Overhead earmuff with earcups attached to a steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 21 | 29 | 38 | 44 | 37 | 42 | 42 |
| | | SD | 3 | 3 | 4 | 4 | 3 | 3 | 4 |
| | | APV | 18 | 26 | 34 | 40 | 34 | 39 | 38 |
| JSP MONZA | Overhead earmuff with earcups attached to a vinyl-covered steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 16 | 25 | 31 | 42 | 34 | 37 | 35 |
| | | SD | 3 | 3 | 4 | 4 | 3 | 4 | 4 |
| | | APV | 13 | 22 | 27 | 38 | 31 | 33 | 31 |
| ORIS EM 1115 SABRE | Universal earmuff with symmetrical earcups centrally attached to a plastic headband. Foam filled ear cushions. | Mean | 16 | 25 | 33 | 41 | 33 | 32 | 33 |
| | | SD | 4 | 3 | 2 | 3 | 4 | 4 | 3 |
| | | APV | 12 | 22 | 31 | 38 | 29 | 28 | 30 |
| PELTOR H10A | Overhead earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 18 | 25 | 38 | 40 | 36 | 43 | 37 |
| | | SD | 3 | 2 | 2 | 3 | 3 | 2 | 5 |
| | | APV | 15 | 23 | 36 | 37 | 33 | 41 | 32 |
| PELTOR H7F | Overhead folding earmuff with earcups attached to a spring steel headband by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 11 | 19 | 30 | 37 | 37 | 41 | 35 |
| | | SD | 2 | 3 | 4 | 5 | 5 | 2 | 4 |
| | | APV | 9 | 16 | 26 | 32 | 32 | 39 | 31 |
| PROTECTOR EMH 12 | Universal earmuff with symmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 15 | 21 | 31 | 37 | 31 | 38 | 33 |
| | | SD | 4 | 3 | 4 | 5 | 4 | 3 | 3 |
| | | APV | 11 | 18 | 27 | 32 | 27 | 35 | 30 |
| RACAL CLASSIC 3 | Overhead earmuff with earcups centrally attached to a plastic headband by a yoke mounting. Foam filled ear cushions. | Mean | 16 | 22 | 29 | 38 | 38 | 43 | 39 |
| | | SD | 3 | 2 | 3 | 3 | 3 | 3 | 4 |
| | | APV | 13 | 20 | 26 | 35 | 35 | 40 | 35 |
| RACAL SONOMUFF | Universal earmuff with asymmetrical earcups centrally attached to a reinforced plastic headband. Foam filled ear cushions. | Mean | 19 | 23 | 29 | 38 | 38 | 42 | 34 |
| | | SD | 4 | 3 | 4 | 5 | 6 | 4 | 5 |
| | | APV | 15 | 20 | 25 | 33 | 32 | 38 | 29 |
| SILENTA SUPER | Universal earmuff with symmetrical earcups attached to a spring steel headband by a yoke mounting. Foam filled ear cushions. | Mean | 13 | 22 | 27 | 34 | 37 | 40 | 30 |
| | | SD | 3 | 4 | 3 | 4 | 4 | 4 | 7 |
| | | APV | 10 | 18 | 24 | 30 | 33 | 36 | 23 |

GRADE 5: EARMUFF/HELMET COMBINATIONS

| HEARING PROTECTOR (Manufacturer or Supplier) | DESCRIPTION | OCTAVE BAND ATTENUATION DATA | | | | | | | |
|---|---|---------------------------------|-----|-----|----|----|----|----|----|
| | | Centre Frequency (Hz) | | | | | | | |
| | | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| BILSOM 728 | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam filled ear cushions. Note: Appropriate fitting instructions are to be supplied with the earmuffs. | Mean | 12 | 21 | 29 | 37 | 34 | 35 | 35 |
| SD | | 3 | 2 | 2 | 2 | 3 | 2 | 3 | |
| APV | | 9 | 19 | 27 | 35 | 31 | 33 | 32 | |
| Helmet: NZ Safety 410 | | | | | | | | | |
| HELLBERG MARK 12 21012 | Earmuff assembly clips into a slot on the safety helmet. Earcups are centrally mounted. Foam filled ear cushions. Note: Appropriate fitting instructions are to be supplied with the earmuffs. | Mean | 16 | 26 | 34 | 37 | 37 | 35 | 39 |
| SD | | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| APV | | 13 | 23 | 31 | 34 | 34 | 32 | 35 | |
| Helmet: MSA | | | | | | | | | |
| PELTOR H10P3G | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam filled ear cushions. | Mean | 15 | 24 | 36 | 39 | 37 | 41 | 39 |
| SD | | 4 | 3 | 3 | 2 | 3 | 2 | 3 | |
| APV | | 11 | 21 | 33 | 36 | 34 | 39 | 36 | |
| Helmet: Protector HC 43 | | | | | | | | | |
| PELTOR H31P3 | Earmuff assembly clips into a slot on the safety helmet. Earcups are attached by a yoke mounting. Foam/fluid filled ear cushions. | Mean | 12 | 19 | 29 | 34 | 38 | 38 | 38 |
| SD | | 3 | 4 | 3 | 2 | 4 | 3 | 2 | |
| APV | | 9 | 15 | 26 | 33 | 34 | 35 | 36 | |
| Helmet: Peltor G2000 C/D | | | | | | | | | |

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