

# Hearing Protection

| Excessive noise is dangerous for your hearing



## Product Catalogue

MANUFACTURERS OF HEARING PROTECTION FOR  
TODAY'S DEMANDING WORK ENVIRONMENTS.

HOWARD  
LEIGHT 

by Honeywell

Howard Leight®

# Hearing Protection

| Excessive noise is dangerous for your hearing



# Hearing Conservation Solutions

Don't turn a deaf ear!

Noise-induced hearing loss rarely happens overnight. Rather, it accumulates over time with every unprotected exposure to hazardous noise. We are born with around 20,000 hair cells in each ear. Above 80 decibels (for 8 hours), noise can destroy these hair cells and gradually lead to deafness. This deafness is sadly irreversible, but it is entirely preventable.

To help HSE managers to develop and deploy effective and suitable hearing conservation programs for their environment, Howard Leight offers a wide range of solutions: innovative products, advice, educational and training tools, and on-site fit testing to ensure that hearing protectors fit the wearer. The Howard Leight brand is a global leader in passive and intelligent hearing protection solutions, and the founder of the HearForever® hearing conservation initiative.

**Let's put an end to hearing loss!** Choose the hearing protection that suits you best and that you can wear comfortably 100% of the time when you are exposed to noise.

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## Experts in preventing occupational hearing loss for more than 30 years.

Howard Leight developed the first polyurethane foam earplug and the first banded earplugs more than 30 years ago.

Today, Howard Leight has several accredited acoustic laboratories, with international teams of engineers and hearing aid specialists. With its expertise in preventing occupational hearing loss, Howard Leight has developed technologies that make it the world leader in the field:

- Innovative patented technologies to bring a constant improvement in comfort and easy fitting of the hearing protector.

- Polyurethane foam: its patented technology (semi-open cell structure) makes it easy to insert into the ear canal for increased comfort.

- Conforming Material Technology™: body heat softens the material to make it more flexible and exert less pressure in the ear canal.

- A wide variety of shapes, sizes and colors to allow users to choose the protector that suits them best.

Users can choose the product that they find most comfortable and that they are happy to wear 100% of the time they are exposed to noise. We offer options according to the choice of comfort and/or compatibility with other PPE.



## Search by Exposure Level

Start with the level of noise to which your employees are exposed. Then use the index below to identify the earplug and earmuff options with attenuation levels that are right for their work environment.

### Earplugs

Noise Exposure dBA			80	85	90	95	100	105
<b>Single-Use</b>	<b>SLC<sub>80</sub> (dB)</b>	<b>Class</b>						
Max®	26dB	5					████████████████████	████████████████████
Laser Lite®	25dB	4				████████████████████	████████████████████	
300 Series uncorded	22dB	4				████████████████████	████████████████████	
300 Series corded	24dB	4				████████████████████	████████████████████	
Max Lite®	25dB	4				████████████████████	████████████████████	
Multi Max®	24dB	4				████████████████████	████████████████████	
X-Treme®	26dB	5					████████████████████	████████████████████
FirmFit™	22dB	4				████████████████████	████████████████████	
Laser Trak® detectable	25dB	4				████████████████████	████████████████████	
<b>Multiple-Use</b>	<b>SLC<sub>80</sub> (dB)</b>	<b>Class</b>						
Quiet® uncorded	20dB	3			████████████████████	████████████████████		
Quiet® corded	23dB	4				████████████████████	████████████████████	
AirSoft®	26dB	5					████████████████████	████████████████████
Fusion®	22dB	4				████████████████████	████████████████████	
Fusion® Detectable	22dB	4				████████████████████	████████████████████	
SmartFit® uncorded	20dB	3			████████████████████	████████████████████		
SmartFit® corded	16dB	2	████████████████████	████████████████████	████████████████████			
SmartFit® Detectable	16dB	2	████████████████████	████████████████████	████████████████████			
Clarity®	21dB	3			████████████████████	████████████████████		
<b>Banded</b>	<b>SLC<sub>80</sub> (dB)</b>	<b>Class</b>						
QB1HYG®	16dB	2	████████████████████	████████████████████	████████████████████			
QB2HYG®	21dB	3			████████████████████	████████████████████		
QB3HYG®	20dB	3			████████████████████	████████████████████		
PerCap®	20dB	3			████████████████████	████████████████████		

↑  
85dB  
Hearing protection must be worn. It is required for exposures of 85dB or higher.

↑  
For hearing protection in areas exceeding 110dB, it is important to be sure the earplug or earmuff you are using is properly fitted. As the SLC<sub>80</sub> rating system often underestimates the amount of protection workers receive when they fit their hearing protectors properly, the real-world attenuation should be measured with a fit verification system (such as VeriPRO).  
  
For extreme noise levels (over 105dB), it is important to seek specialist advice on how to measure the individual fit of the protector to determine your actual protection level.

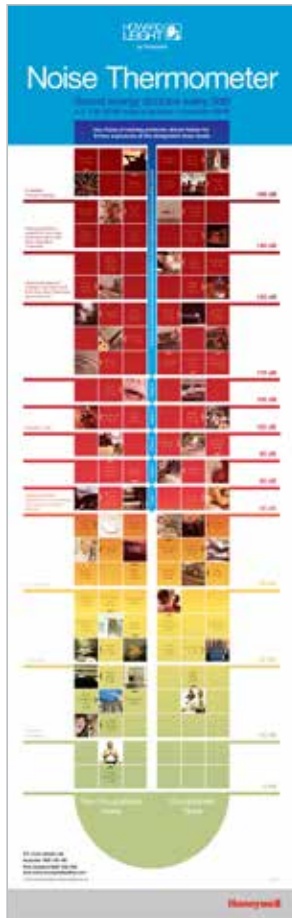
**Keep these tips in mind as you choose:**

- ① Match product choices to the specific attenuation levels for your environment
- ② Too much protection may put employees at risk, especially in low levels of hazardous noise
- ③ Optimal protection is based on proper earplug fit
- ④ Make sure employees receive proper training on how to use their earplugs or earmuffs





## General Information



### Damage Prevention

Since noise induced hearing loss can not be cured, it must be prevented. There are several noise control techniques including engineering controls and administrative controls. Personal hearing protection should be used to reduce work place noise to 'safe' levels, or as a last resort when noise can not be engineered out.

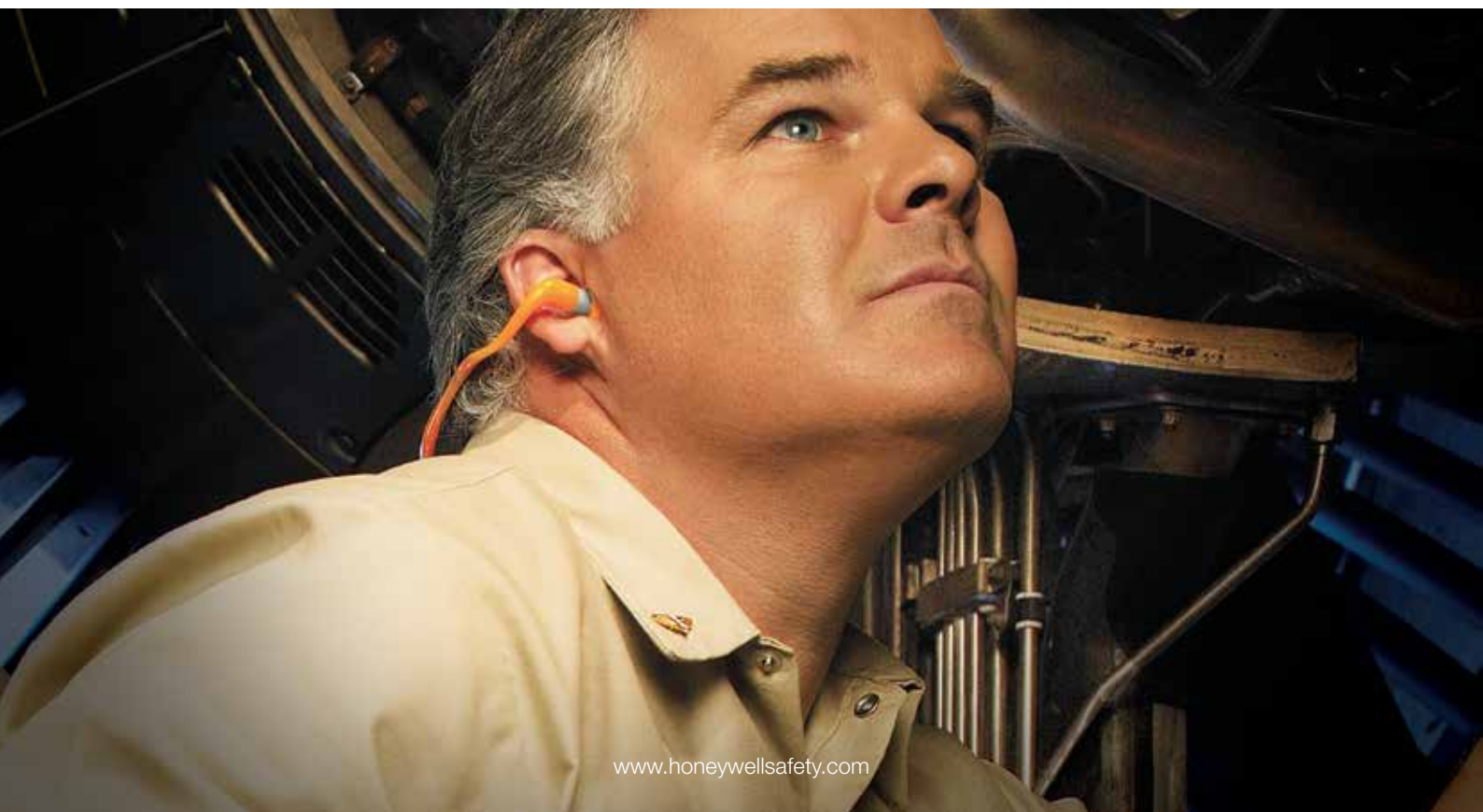
Personal hearing protection is usually available in two forms: earplugs and earmuffs. Earplugs are usually made of silicone, or foam, and are inserted into the ear canal. Earmuffs completely enclose the ear, and are held in place against the side of the head by a headband.

Earplugs and Earmuffs work by blocking the sound waves from reaching the inner ear. The process of blocking the sound waves is called attenuation. The higher the attenuation the more noise is blocked from reaching the inner ear.

#### Common Noise Levels

Quiet Office	50-60dB
Restaurant	60-70dB
50kW Electric Motor	90dB
Heavy Vehicle	90dB
Grinder	83-115
Compressor	101-123dB
Diesel Generator	107-111dB
Mining Drill	108-113dB
Power Saw	110dB
Rock Drill	110dB

Ask us for a copy of our 'noise thermometer' which presents a variety of common noises and the impact on hearing.

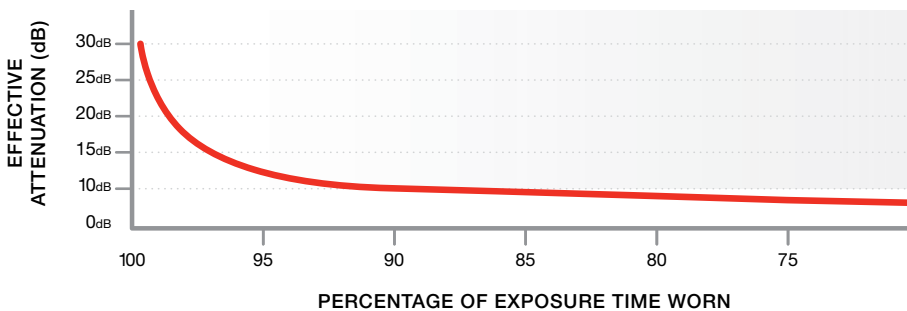


## General Information



### Workplace Protection

Discomfort or irritation when wearing hearing protection can occur and can lead to removal of the hearing protector. This is commonly what happens with high attenuating hearing protectors which can be heavier and bulkier. You only have to remove your hearing protection a few minutes every day for the damaging effects of noise to accumulate. This is why 100% wear time is so important.



Over a working day, periods of a few minutes of unprotected exposure can easily accumulate. An example of reduced effective protection is removing your hearing protector for 10 minutes during a total exposure time of 1 hour. The effective protection provided by a high attenuating hearing protector (30dB) is reduced to 8dB. This makes the effective protective value 22dB less than expected, by wearing the hearing protector 83% of the time over 1 hour.

It is vital that every effort is made to encourage 100% wear time. This can be achieved through training and providing suitable hearing protection that is comfortable enough to wear all day.

### The Class System

Under the Australian Standard AS/NZS 1270:2002, the class system is a simple way to select a hearing protector appropriate to a noise exposure. Once the extent of the noise hazard has been determined by a noise level survey, the user simply applies this to a table like the one below to select an appropriate hearing protector.

Class	SLC <sub>80</sub> dB	For use in noise...
1	10-13	less than 90dB(A)
2	14-17	90 to less than 95dB(A)
3	18-21	95 to less than 100dB(A)
4	22-25	100 to less than 105dB(A)
5	26 or greater	105 to less than 110dB(A)

SLC<sub>80</sub>  
**22dB**  
CLASS  
**4**



All calculations are based on the maximum exposure limit of 85dB Leq, 8hr.

Example: if a noise level survey shows a person will be exposed to a noise level of 102dB(A)Leq8hr using the above table, we can see that a Class 4 hearing protector is required for protection against this level of noise.

In Australia the SLC<sub>80</sub> rating is still an acceptable method for the selection of hearing protectors according to clause A2.3 in Appendix A of AS/NZS1269.3-2005.

### Hearing Product

#### Test Procedure

The method of testing a hearing protector to AS/NZS 1270:2002 is an involved process, and ensures that the protector will meet the requirements of workers in the real world.

In an approved laboratory, 20 naive subjects are individually tested with earplugs, and 16 subjects with earmuffs. They are provided with the hearing protector and printed instructions for fitting and are not given any assistance from the tester.

The test subject is asked to respond to different noise frequencies of where mathematically the SLC<sub>80</sub> is calculated. The Class of the protector is determined by the SLC<sub>80</sub>.

The Howard Leight earplug and earmuff display the protector's SLC<sub>80</sub> rating and class on the packaging.



## General Information

### Dual Protection: Proceed with caution.

**Dual protection is often the only method for achieving maximum protection in the most hazardous noise environments – but it has its limitations.**

When both earplugs and earmuffs are worn in combination the maximum attenuation is limited by flanking sound transmission paths in the skull. For this and other reasons the attenuation values of the individual hearing protectors cannot be simply added.

With the combination of earmuffs and earplugs the dominant effect comes from the earplugs. The combination of high attenuation earplugs and high attenuation earmuffs will provide similar attenuation to the combination of low attenuation earmuffs and high attenuation earplugs.

However, some research suggests that dual protection is overused. In less extreme environments, a properly fitted high attenuating earplug or earmuff may be the best solution to providing the right level of protection.



#### Example

If you were to combine the Viking V3 Earmuff - 32dB and Max Earplug - 26dB

You can estimate the dual protection noise level, by adding 5dB to the higher SLC80 protector.

$$32\text{dB} + 5\text{dB} = 37\text{dB}$$

Viking V3





## General Information



### Earmuffs and Eyewear

The thinner the frame, the better the attenuation.



The attenuation of an earmuff depends on a tight seal between the ear cushion and the head. Research conducted at the Howard Leight Acoustical Laboratory shows that safety eyewear with a thin frame (a width of 2 mm or less at the temples, where the earmuff cushion meets the frame), caused no significant decline in attenuation. However, eyewear with wider frames caused noticeable gaps in the seal and lowered attenuation – up to 5dB – particularly at low frequencies.

### Honeywell Eyewear best suited for use with hearing protection

#### Fuse®

Exceptional coverage and features a tough 9-base wrap around lens providing optimum safety and vision.



#### A700

Economical and stylish eye protection. Lightweight comfortable design with exceptional coverage and protection.





# Hearing Conservation

Effective hearing protection is not simply a product offering the highest attenuation value, but the best protection for each employee in his or her environment. It is about reducing hearing loss associated with noise and thus improving safety.

Howard Leight helps HSE managers to meet the challenges of a good Hearing Conservation program with VeriPRO®:

- Reducing costs/complaints
- Monitoring “at risk” employees
- Choosing the most suitable product(s)
- Providing the best protection for every employee
- A good balance between protection and communication
- Training

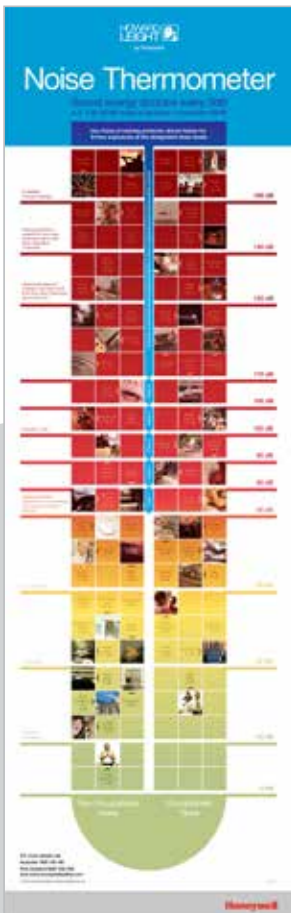
Howard Leight provides training materials to support you in your daily hearing conservation efforts. Please ask us for these materials to raise awareness among your employees of the various risks associated with noise-induced hearing loss and the use of PPE in noisy environments.

A Howard Leight® initiative | [hearforever.org](http://hearforever.org)



PROM1

POST7



POST8



POST9



## Hearing Conservation

### VeriPRO®

#### A personal approach to Hearing Conservation



VeriPRO® makes it easy to get a clear and accurate idea of your employees' hearing protection. Find out whether they are receiving optimal protection, require additional training on how to fit their earplugs, or need to try a different model. VeriPRO® uses sophisticated software in a user-friendly format to calculate the Personal Attenuation Rating (PAR) your employees are receiving from their earplugs.

#### VeriPRO® provides a precise, real-time image of the effectiveness of your earplug and can identify whether the employee:

- Has been given the best possible protection
- Needs additional training to correctly fit the product
- Needs to try a different earplug (shape, size, etc.)
- A unique tool to measure personal attenuation
- Allows you to monitor and document whether your employees know how to wear their earplugs properly
- Works with any earplug

For more information on VeriPRO®, please contact us.



Developed in conjunction with the House Ear Institute ([www.hei.org](http://www.hei.org)), VeriPRO's three-part process checks the effectiveness of an employee's earplug fit in each ear over a range of frequencies.

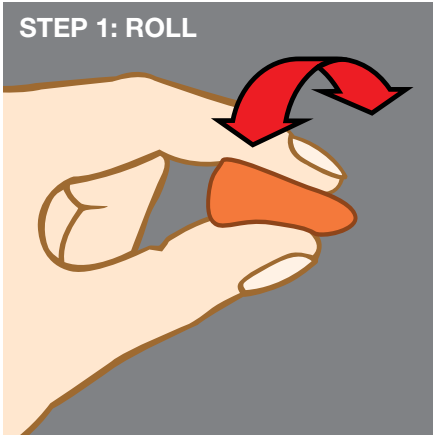
This information is then captured in individual and group reports, accessible by the safety manager.

By verifying earplug effectiveness and providing an ideal opportunity for education, VeriPRO becomes an integral part of a successful Hearing Conservation Program.

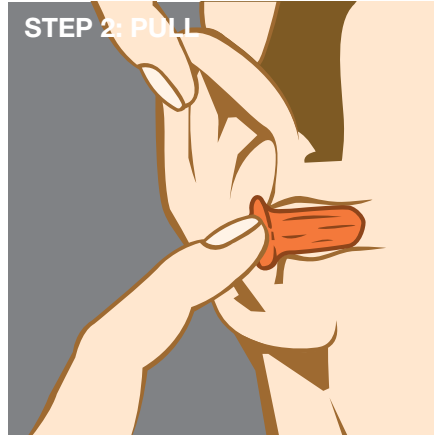




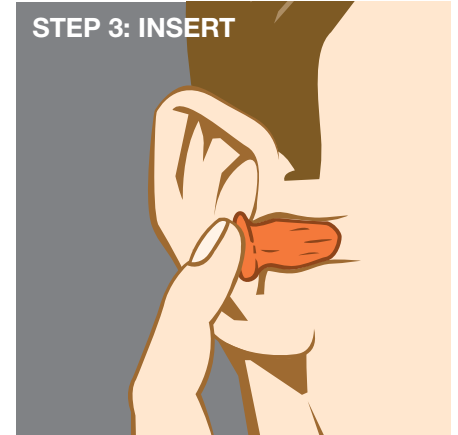
## HOW TO PROPERLY INSERT EARPLUGS



For roll-down foam earplugs, start rolling the foam gently to avoid creases. Then roll firmly to make the cylinder as small and stiff as possible. Move quickly to next step so that the earplug doesn't expand before insertion.



Reach over the head to pull OUT (or for some people, pull UP or BACK) on the outer ear. Have someone observe and give you feedback about which pull-direction is most effective in opening the ear canal for a better fit.



Insert the earplug far enough so that it goes around the bend in the ear canal. This often feels sensitive (not painful), or may trigger a cough reflex. This is normal. Let go of the ear after the earplug is fully inserted.

## TROUBLESHOOTING

### DISCOMFORT

An uncomfortable earplug may reduce wear time, and can indicate improper fit or incorrect sizing. Take the time to find the proper earplug style and fit that are best for you and will provide adequate protection the entire work shift.

CAUSE	SOLUTION
<b>FOAM EARPLUGS</b>	
Earplug is too firm	Try a soft-foam or a low-pressure foam earplug.
<b>ALL EARPLUGS</b>	
Earplug is too large	Try a smaller earplug.
Earplug is hitting the bend in the ear canal	Try a foam earplug that can conform more to the bends of the ear canal.
Earplug is too firm to comfortably bend in the ear canal	Before inserting, straighten the ear canal by reaching over the head to pull OUT (or for some people, pull UP or BACK) on the pinna.

Research has shown that a considerable proportion of employees already achieve effective attenuation with their existing earplugs with proper fit, and that other employees can improve results with training and the ability to choose from a variety of earplugs.

### HIDDEN LEAKS

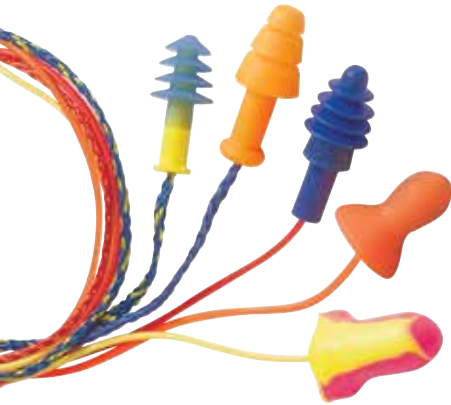
A hidden leak can significantly reduce protection levels. The earplug may appear to be inserted correctly, but improper sizing and selection or even a crease in the earplug may cause an acoustic leak that is not readily visible.

CAUSE	SOLUTION
<b>FOAM EARPLUGS</b>	
Creases in earplug may be allowing noise to leak through	Do not twist or squeeze down the earplug. Properly roll it – gently at first to avoid creases, then roll firmly to make the cylinder as small as possible.
Earplug hits wall of ear canal and bends back on itself	Removal sometimes shows a U-shaped earplug. Reach over the head to pull OUT on the pinna to straighten the ear canal. Try a reusable earplug with a firmer stem to maneuver around the bend of the ear canal.
<b>ALL EARPLUGS</b>	
Earplug is too small	Try a larger earplug.
Round earplug may not fill oval ear canal	Flanges of a pre-molded earplug may not completely fill an oval-shaped ear canal. Try a foam plug that can expand to fill the oval.

## SELECTING THE PROPER EARPLUG



Fit-testing allows a worker to try a variety of hearing protectors that may be suitable. Often, the worker's first choice of earplugs may not be the best. Here are some selection tips that have proven useful in one-on-one training.



### 1: SIZE

Look at the ear canal opening to determine if a different size would be helpful. Women may have smaller ear canals than men.

**LARGER FOAM** MAX®, FirmFit™

**LARGER REUSEABLE** SmartFit®, SmartFit® Detectable, Quiet®, Fusion®, Fusion Detectable, Airsoft®, Clarity®

**SMALLER FOAM** MAX® Small, Max Lite®, Laser Lite®, Matrix®

**SMALLER REUSABLE** Fusion® Small, Quiet® Small, Clarity® Small

### 2: SHAPE

Ear canal openings may appear as round, but are often oval or a slit. A foam earplug often fills an oval or slit in the ear canal.

### 3: EASE OF INSERTION

An earplug with a stem may be easier for some workers to insert.

## UNDER-PROTECTION

Having an earplug in the ear is no guarantee of adequate protection. Fit-testing often reveals poor protection levels that can be corrected with simple steps.

CAUSE	SOLUTION
<b>FOAM EARPLUGS</b>	
Not rolled down small enough	Start rolling gently to avoid creases, then roll firmly to make the cylinder as small as possible. Roll down entire earplug, even the flanged end. This will allow a deeper insertion.
<b>ALL EARPLUGS</b>	
Angle of insertion is incorrect	Observe the worker's ear: which direction opens the ear canal the most? Give feedback to the worker regarding which pull-direction is most effective.
Round earplug may not fill oval ear canal	Flanges of a pre-molded earplug may not completely fill an oval ear canal. Try a foam earplug that can expand to fill the oval.
Earplug is too small, does not seal ear canal	Try a larger earplug.

## TOO MUCH EARPLUG SHOWING

To effectively block noise, nearly all of the earplug needs to be inside the ear canal. Too much earplug showing outside of the ear canal is a sign of a shallow insertion, not deep enough to adequately block noise.

CAUSE	SOLUTION
<b>FOAM EARPLUGS</b>	
Not rolled down small enough	Start rolling gently to avoid creases, then roll firmly to make the cylinder as small as possible. Roll down the entire earplug, even the flanged end for a deeper insertion.
Earplug expanded before insertion	After rolling, move quickly to insert before earplug expands Observe the worker's ear: which direction opens the ear canal the most? Give feedback to the worker regarding which pull-direction is most effective.
<b>ALL EARPLUGS</b>	
Insertion not deep enough	Need to insert past bend in ear canal. This often feels sensitive (not painful), or may trigger a cough reflex. This is normal.
Bend in ear canal is blocking a deeper insertion causing earplug to "back out" of ear (earplug may have a visible bend when removed from the ear).	Reach over the head to pull OUT (or for some people, pull UP or BACK) on the ear flap, called the pinna.
Angle of insertion is incorrect	Use a pen-light to look at the ear canal to see which direction to insert (Give direction to "aim the earplug toward your nose," or "aim the earplug a little upward," etc.)
Earplug too large	Try a smaller earplug

## Earplugs

| Single-Use

An economical and convenient choice for work situations that demand a high degree of comfort, frequent changes or where hygiene presents a problem for reuse.



### FirmFit™

Firm Foam Reinvented. More comfort. More Protection.

#### FEATURES AND BENEFITS

- 40% Softer**  
 You can feel that FirmFit™ is softer than other cylinder shape earplugs when you hold it.
- 29% Less Pressure**  
 FirmFit™ exerts less expansion pressure on the ear canal than other cylinder shape earplugs.
- Greater Protection**  
 With an SLC<sub>80</sub> of 22dB, FirmFit™ provides excellent protection in most medium-to-high noise environments.
- Easy to insert**  
 Requires less pressure to roll down. Slow recovery rate gives you plenty of time to correctly insert in ear canal.
- Easy to see**  
 Distinct warning orange colour makes compliance checks easy.

Part No.	Description	Packaging	Unit of Measure
FF-1	FirmFit™ uncorded	polybag, 200 pair per box	Box of 200
FF-30	FirmFit™ corded	polybag, 100 pair per box	Box of 100
FF-1-PB	FirmFit™ uncorded paper bag	paperbag, 100 pair per box	Box of 100
FF-30-PB	FirmFit™ corded poly bag	paperbag, 100 pair per box	Box of 100
FF-1-D	FirmFit™ uncorded dispenser refills	paperbag, 500 pair per box	Box of 500
FF-LS4	FirmFit™ uncorded dispenser refills	paperbag, 200 pair per box	Box of 200

SLC<sub>80</sub>  
22dB  
CLASS  
4



SLC<sub>80</sub>  
22dB  
CLASS  
4



#### We've Listened to Workers.

Extensive research into earplug preferences revealed that some workers prefer a firm foam earplug. They gain a sense of security from feeling the earplug in their ear. And while they like knowing the earplug is there, workers want greater comfort. Independent tests reveal that FirmFit™ outperforms other cylinder shaped earplugs, providing workers with a more comfortable option.



### MAX<sup>®</sup>

High SLC<sub>80</sub> attenuation index and optimum comfort.

#### FEATURES AND BENEFITS

- The world's most-used polyurethane foam earplug.
- Improved shape for easy insertion and a better fit.
- Bell shape for maximum in-ear comfort.
- Smooth, soil-resistant skin prevents dirt build-up.

Part No.	Description	Packaging
Max-1	Uncorded / 1pr Polybag	Box of 200 pairs, case of 2000 pairs
Max-30	Corded / 1pr Polybag	Box of 100 pairs, case of 1000 pairs
R-01110	Uncorded / 5pr w/storage cylinder	Box of 100 pairs, case of 1000 pairs

SLC<sub>80</sub>  
**26dB**  
CLASS  
**5**



SLC<sub>80</sub>  
**26dB**  
CLASS  
**5**



### X-treme<sup>®</sup>

Comfortable with high attenuation.

#### FEATURES AND BENEFITS

- Comfortable earplug with high SLC<sub>80</sub> ratings.
- Brightly coloured offering high visibility and worker compliance.
- Smooth tapered shape for easy insertion and removal.
- Corded version helps to guard against the earplugs falling onto the floor.
- Conveniently sized hand dispensing option for easy accessibility.
- Wall or bench top dispenser provides a refillable option for the whole work area.

Part No.	Description	Packaging
XTR-1	Uncorded / 1pr Polybag / PVC Free	Box of 200 pairs, case of 2000 pairs
XTR-30	Polycord / 1pr Polybag	Box of 100 pairs, case of 1000 pairs
1006821	Hand Dispenser of 100 pairs	Box of 12 Tubes

SLC<sub>80</sub>  
**26dB**  
CLASS  
**5**



SLC<sub>80</sub>  
**26dB**  
CLASS  
**5**



### Max Lite<sup>®</sup>

Guaranteed comfort for smaller ear canals.

#### FEATURES AND BENEFITS

- Ideal size for people with smaller ear canals.
- Low-density foam which expands gently for ultra-comfortable long-term wear.
- Contoured T-shape for easy handling and fit.
- Smooth, soil-resistant skin prevents dirt build-up.

Part No.	Description	Packaging
LPF-1	Uncorded / 1pr Polybag	Box of 200 pairs, case of 2000 pairs
LPF-30	Corded / 1pr Polybag	Box of 100 pairs, case of 1000 pairs

SLC<sub>80</sub>  
**25dB**  
CLASS  
**4**



SLC<sub>80</sub>  
**25dB**  
CLASS  
**4**





## Earplugs

## Single-Use

### Laser Lite®

Highly visible protection.

#### FEATURES AND BENEFITS

- Bright colors make the Laser Lite visible and appealing.
- The foam expands to mould to the shape of virtually every ear.
- Contoured T-shape for easy insertion and removal.
- Smooth, soil-resistant skin prevents dirt build-up.

Part No.	Description	Packaging
LL-1	Uncorded / 1pr Polybag	Box of 200 pairs, case of 2000 pairs
LL-30	Corded / 1pr Polybag	Box of 100 pairs, case of 1000 pairs

SLC80  
25dB  
CLASS  
4



SLC80  
25dB  
CLASS  
4



### 300 Series

Energized for personal comfort and performance.

#### FEATURES AND BENEFITS

- Tapered design for ease of insertion.
- Leight Stripe™ formula: a blend of yellow and white polyurethane foam that feels soft to the touch and in your ear.
- Easy to roll and insert correctly: Resists tendency to back out of the ear canal. Less expansion pressure for long-term comfort.
- Smooth, soil-resistant skin prevents dirt build-up on earplugs.

Part No.	Description	Packaging
1005073	Large Uncorded / 1pr Polybag	Box of 200 pairs*
1005074	Small Uncorded / 1pr Polybag	Box of 200 pairs*
1007192	Large Uncorded / 10pr Pocket pack	Box of 200 pairs**
1000106	Large Polycord / 1pr Polybag	Box of 100 pairs***
1000107	Small Polycord / 1pr Polybag	Box of 100 pairs***

SLC80  
22dB  
CLASS  
4



SLC80  
24dB  
CLASS  
4



\* In polybag, case of 2000 pairs \*\* Pocket pack of 10 pairs, case of 2000 pairs \*\*\* In polybag, case of 500 pairs

### Multi Max®

One product, two sizes.

#### FEATURES AND BENEFITS

- Provides an exceptional fit while simplifying inventory management.
- Smooth, soil-resistant skin prevents dirt build-up.
- The foam expands to mould to the shape of virtually every ear.

Part No.	Description	Packaging
MM-1	Uncorded / 1pr Polybag	Box of 200 pairs, case of 2000 pairs

SLC80  
24dB  
CLASS  
4







### SmartFit®

A revolution in personalised fit.

#### FEATURES AND BENEFITS

- CMT technology: malleable material that utilizes body heat to adapt to the shape of the ear canal.
- Superior comfort and an individual fit.
- Simplified inventory control - a single product fits almost every user.
- Unique detachable cord system.
- HearPack™ storage case.

#### SmartFit® Process Industry style features

- Attached cotton cord and paper bag, ideal for pulp & paper or tobacco processing industries (SMF-30W-PA).

Part No.	Description	Packaging
SMF-30A	Detachable Fabric Cord / HearPack	Box of 50 pairs, case of 500 pairs
SMF-30W-PA	Attached Cotton Cord / Paper Bag	Box of 50 pairs, case of 500 pairs

SLC80  
**20dB**  
CLASS  
**3**



SLC80  
**16dB**  
CLASS  
**2**



### Fusion®

Total protection, exceptional comfort and a perfect fit.

#### FEATURES AND BENEFITS

- Central FlexiFirm® stem for easy fitting.
- SoftFlanges™ for superior comfort and fit.
- Unique detachable cord system.
- HearPack™ storage case.
- Patented dual-material design combines firm core for easy handling with soft flanges for comfort and fit.

Part No.	Description	Packaging
FUS30-HPA	Regular Corded / HearPack	Box of 50 pairs, case of 500 pairs
FUS30S-HPA	Small Corded / HearPack	Box of 50 pairs, case of 500 pairs

SLC80  
**22dB**  
CLASS  
**4**



SLC80  
**22dB**  
CLASS  
**4**





## Earplugs

## Multiple-Use

### Clarity®

Clarity® technology in an earplug.

#### FEATURES AND BENEFITS

- Patented design with an integrated ultra-thin membrane for moderate, linear attenuation.
- Filters out harmful noise but allows speech through.
- Ultra-flexible rings for a perfect fit and enhanced comfort.
- Rigid central stem for ease of insertion and removal.
- Practical plastic storage case.
- Woven cord adjusts to user needs and reduces sound transmission, cord adjuster adapts length to suit personal preference or application.

Part No.	Description	Packaging
1005329	Regular (blue) Corded / Reusable Case	Box of 10 pairs, case of 100 pairs
1005328	Small (green) Corded / Resuable Case	Box of 10 pairs, case of 100 pairs



### AirSoft®

Air flow for optimum comfort.

#### FEATURES AND BENEFITS

- Earplugs with air cushion and internal noise-blocking flanges.
- Four flanges for a better seal in the ear canal.
- Elongated shape for a better fit.
- Integrated stem for ease of insertion and removal.
- Supplied in pairs in a practical plastic storage case.
- Delivers optimal protection and increased long-term comfort.

Part No.	Description	Packaging
DPAS-30R	Red Polycord / 1pr Polybag	Box of 50 pairs, case of 500 pairs
DPAS-30W	White Nylon Cord / 1pr Polybag	Box of 50 pairs, case of 500 pairs
AS-1	Uncorded / Reusable Case	Box of 50 pairs, case of 500 pairs
AS-30R	Red Polycord / Reusable Case	Box of 50 pairs, case of 500 pairs



### Quiet®

Easy handling, better fit.

#### FEATURES AND BENEFITS

- Patented no-roll design is easy to handle and fit.
- Contoured shape provides a close fit in the ear canal.
- Integrated stem makes insertion quick and easy.
- Supplied in pairs in a practical plastic storage case.

Part No.	Description	Packaging
QD-1	Uncorded / 1pr Polybag	Box of 50 pairs, case of 500 pairs
QD-30	Corded / 1pr Polybag	Box of 50 pairs, case of 500 pairs



## Earplugs

## Detectable



All our detectable earplugs are designed for high visibility and detectability. They are available in two versions: single-use or reusable earplugs. They have been specially designed for working environments where contamination from foreign objects is unacceptable.

### Laser Trak®

The highest attenuation rate in its class.

#### FEATURES AND BENEFITS

- The foam expands to fit virtually every ear.
- Non-ferrous metal grommet and bright colors easily detected by visual and magnetic inspection.
- Contoured T-shape for easy insertion and wear.

Part No.	Description	Packaging
LT-30	Corded / 1pr Polybag	Box of 100 pairs, case of 1000 pairs

### SmartFit® Detectable

Detectable earplugs for long-term comfort.

#### FEATURES AND BENEFITS

- Delivers superior comfort and a truly individual fit.
- Simplified inventory management: a single product fits almost every user.
- Blue color to aid detection.
- Easily detectable metallic cord and ring.

Part No.	Description	Packaging
SDT-30A	SmartFit Detectable / 1pr Polybag	Box of 50 pairs, case of 500 pairs
SMF-30BUA	SmartFit Blue/Nylon Cord / 1pr Polybag	Box of 50 pairs, case of 500 pairs

### Fusion® Detectable

Protection, comfort and enhanced fit for reusable and detectable earplugs.

#### FEATURES AND BENEFITS

- Patented dual-material design.
- Central FlexiFirm® stem for ease of insertion, SoftFlanges™ for exceptional comfort and fit.
- Easily detectable metal cord and stem.
- Product washable in lukewarm water; lasts for several weeks.
- Two sizes fine-tunes fit for personal comfort and safety.

Part No.	Description	Packaging
FDT-30A	Regular (translucent blue stem) Corded / HearPack	Box of 50 pairs, case of 500 pairs
FDT-30-SMA	Small (clear stem) Corded / HearPack	Box of 50 pairs, case of 500 pairs



## Earplug dispensers

Save time and space and reduce waste. Wherever the use of the earplugs, dispensers offer an economical, hygienic and user-friendly solution to hearing protection.

### Leight® Source 400 (LS400)

#### FEATURES AND BENEFITS

The Leight® Source 400 dispenser can be fixed to a wall or placed on a table or workstation. Entirely transparent, it can be refilled before it runs out. This system dispenses earplugs with a twist knob, and can hold 400 pairs of Howard Leight single-use earplugs, such as Max, Max Lite, Laser Lite, MultiMax, FirmFit™, X-treme and 300 Series.

Part No.	Description		
LS-400	Leight® Source 400 dispenser (supplied empty)		
Refill for Leight® Source 400: Refill box of 200 pairs, case of 2000 pairs:			
MAX-LS4	Max	XTR-LS4	X-treme
LPF-LS4	Max Lite	FF-LS4	FirmFit™
LL-LS4	Laser Lite	1006186	300 Series Large
MM-LS4	MultiMax	1006187	300 Series Large



LS400

### Leight® Source 500 (LS500)

#### FEATURES AND BENEFITS

The Leight Source 500 earplug dispenser is made of anodized aluminum and is designed to be mounted on a wall. This system dispenses earplugs with a twist knob. Ideal for large factories and processing plants with a zero-tolerance policy when it comes to packaging waste, the LS-500 dispenser can hold 500 pairs of Howard Leight single-use earplugs, such as Max, Max Lite, Laser Lite and FirmFit™.

Part No.	Description		
LS-500	Leight® Source 500 dispenser (supplied empty)		
Refill for Leight® Source 500: Refill box of 500 pairs, case of 2000 pairs:			
Max-1-D	Max	LL-1-D	Laser Lite
LPF-1-D	Max Lite	FF-1-D	FirmFit™



LS500

## Banded Earplugs

We offer a whole range of high performance features, including a patented band design that prevents pods from touching dirty or contaminated surfaces when they are put down. These banded earplugs are especially recommended for managers and for use in environments with intermittent exposure to noise.

### QB1HYG®

**Inner-aural protection.**

#### FEATURES AND BENEFITS

- Smooth, ergonomic pods for maximum protection.
- Patented band design prevents pods from touching dirty or contaminated surfaces.
- Lightweight and portable, designed especially for environments with intermittent exposure to noise.
- Includes a pair of replacement pods for extended use.

Part No.	Description	Packaging
QB1HYG	Inner-Aural Band / Resealable Bag	Box of 10 pairs
QB100HYG	Replacement Pods / Polybag	Box of 50 pairs

### QB2HYG®

**Supra-aural protection.**

#### FEATURES AND BENEFITS

- Soft pods rest partially in the ear to combine comfort and protection.
- Patented band design prevents pods from touching dirty or contaminated surfaces.
- Light and portable.
- Includes a pair of replacement pods for extended use.

Part No.	Description	Packaging
QB2HYG	Supra-Aural Band / Resealable Bag	Box of 10 pairs
QB200HYG	Replacement Pods / Polybag	Box of 50 pairs

### QB3HYG®

**Semi-aural protection.**

#### FEATURES AND BENEFITS

- Super-soft lightweight cushions rest outside the ear canal for unparalleled comfort.
- Patented band design prevents pods from touching dirty or contaminated surfaces.
- Light and portable: ideal for occasional use.
- Includes a pair of replacement pods for extended use.

Part No.	Description	Packaging
QB3HYG	Semi-Aural Band / Resealable Bag	Box of 10 pairs
QB300HYG	Replacement Pods / Polybag	Box of 50 pairs

### PerCap®

**Comfortable, lightweight and flexible banded earplugs.**

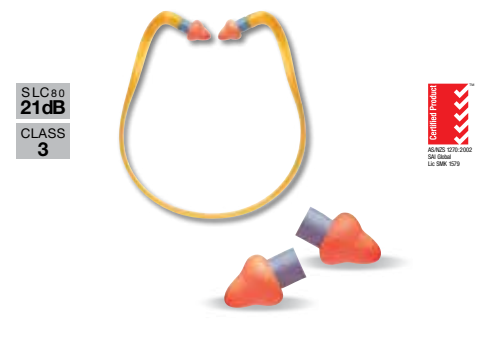
#### FEATURES AND BENEFITS

- Super-soft, lightweight semi-aural pods rest outside the ear canal for unparalleled comfort.
- Multiple positions: over-the-head, under-the-chin or behind-the-neck wear.
- Compact, folding design for easy storage in pockets.
- Ideal for users exposed to intermittent noise.
- Lightweight, just 10 grams.

Part No.	Description	Packaging
1000276	Folding Band / Resealable Bag	Case of 10 pairs
1000277	Replacement Pods / Polybag	Box of 10 pairs



SLC<sub>80</sub>  
16dB  
CLASS  
2



SLC<sub>80</sub>  
21dB  
CLASS  
3



SLC<sub>80</sub>  
20dB  
CLASS  
3



SLC<sub>80</sub>  
20dB  
CLASS  
3



## Noise-blocking earmuffs

Noise-blocking earmuffs are a simple and effective way of protecting yourself. But they can be heavy and awkward or even place great pressure around your head. Howard Leight has taken these major comfort factors into account in offering a range of earmuffs with patented technologies.

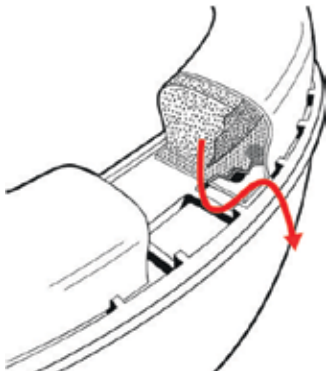


### AIR FLOW CONTROL™ TECHNOLOGY

**Patented Air Flow Control™ technology provides optimal attenuation across all frequencies and snap-in ear cushions for easy maintenance.**

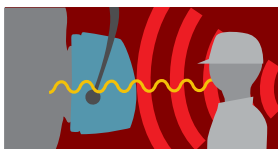
Noise-blocking earmuffs traditionally attenuate very well at high frequencies, but poorly at low frequencies.

With our patented Air Flow Control (AFC) technology, we found a way to deliver superior low-frequency attenuation and more consistent performance across the whole frequency range without increasing the size or weight of the earmuff.



#### How it works:

Inside the snap-in AFC ear cushion, a series of holes allows the ear to “breathe” more effectively and channels the air out of the base of the cushion, much like a car shock absorber. This controlled flow of air dampens low-frequency vibrations while maintaining excellent high-frequency attenuation. Air Flow Control is a standard feature on all noise-blocking earmuffs in the Sync, Lightning, Thunder, Viking and Impact ranges.



### SOUND MANAGEMENT TECHNOLOGY™ (SMT)

AFC technology enables excellent sound processing and so provides for clear communication with the environment.

Staying protected while remaining connected to the environment.

## Noise-blocking earmuffs



### Sync™

#### Listen to your music in complete safety.

Most radio earmuffs provide some level of hearing protection, but often sacrifice sound quality for attenuation. That's why we created Sync, the latest generation of passive earmuffs for active lifestyles. These stereo radio earmuffs protect your hearing, offer high-quality sound, and allow you to listen to the radio and personal audio devices safely at work and at home.



### Sync™ Stereo

#### Play it safe

#### FEATURES AND BENEFITS

The Sync has no volume knobs or power switches and no batteries to replace. The ease of use of the Sync Stereo is enhanced by maintaining volume and power control through the MP3 player. Plus, the Sync Stereo's state-of-the-art bass chamber enhances bass sounds that are typically sacrificed in traditional industrial stereo earmuffs.

AUX input can connect to MP3 players and other portable audio devices. Includes 3.5 mm plug and cable.

The Sync™ Stereo Volume Management Technology (VMT™) maintains sound levels from portable audio equipment at safe levels.



Audio device not included

Part No.	Description	SLC <sub>80</sub>	Class
1030110	Sync Stereo earmuffs (supplied in blister pack)	31dB	5



## Noise-blocking earmuffs

### Sync™ Digital AM/FM radio

#### FEATURES AND BENEFITS

- Light green/yellow ear cups provide high visibility and contrast, and the reflective headband illuminates under light for increased visibility and safety.
- Inner-ventilated headband minimises pressure on the head; breathes easier in warm/humid climates
- All Sync earmuffs feature patented Air Flow Control™ technology, delivering optimum attenuation across all frequencies without increasing ear cup size or weight.
- Radio volume does not exceed 82dB
- The Sync AM/FM radio is available in Hi-VIS and Black.
- 10 pre-set stations, easy to use and switch from one station to another.
- 3.5mm AUX input can be connected to MP3 players and smart phones.
- Supplied with 3.5mm connection cable and 2 x AA batteries for up to 101 hours of operation.

Part No.	Description	SLC <sub>80</sub>	Class
1030332	Sync™ Hi-Vis Digital AM/FM radio earmuffs (supplied in blister pack)	26dB	5
1030330	Sync™ Black Digital AM/FM radio earmuffs (supplied in blister pack)	26dB	5



### Sync™ Electro® with Sound Amplification with FM Radio

#### FEATURES AND BENEFITS

- Separate knobs adjust volume for radio and sound amplification.
- Radio volume does not exceed 82dB.
- The Sync Electro® is available in headband and helmet models.
- 3.5mm AUX input can be connected to MP3 players and smart phones.
- Built-in microphones reproduce ambient sounds, retaining sense of direction.
- 10 pre-set stations, easy to use and switch from one station to another.

Part No.	Description	SLC <sub>80</sub>	Class
1030333	Sync™ Electro® earmuffs	26dB	5
1030334	Sync™ Electro® Cap-Mounted earmuffs	23dB	4





## Noise-blocking earmuffs



### Clarity™

Using Howard Leight's patented Sound Management Technology™ (SMT), Clarity series earmuffs improve employee safety by blocking harmful noise while allowing voice and signal frequencies to be heard more naturally.

#### FEATURES

##### Advanced sound processing technology for enhanced communication in the workplace.

- Blocks noise but helps you to hear the people around you, as well as alarms and other warning signals.
- Does not isolate the user from the environment, but offers increased safety particularly in sensitive environments.
- Dielectric construction suitable for all workplaces, especially electrical environments.
- Uniform headband pressure for all head sizes, providing better comfort for long-term wear.
- Ventilated inner headband minimizes pressure on the head and guarantees increased breathability in warm/humid climates.
- Non-deforming outer headband withstands rough treatment in the toughest workplaces.
- Quick-click height adjustment remains fixed during wear.
- Snap-in ear cushions make replacement quick and easy.

### Clarity™ EARMUFFS

#### FEATURES AND BENEFITS

- Comfortable over-the-head design ideal for many applications.
- Ventilated inner headband reduces pressure on the head and guarantees increased breathability in warm/humid climates.
- Non-deforming outer headband withstands rough treatment in the toughest workplaces.

Part No.	Description	SLC <sub>80</sub>	Class
1011142	C1	23dB	4
1011146	C3	28dB	5



C1



### Clarity™ MULTI-POSITION EARMUFFS

#### FEATURES AND BENEFITS

Allows the wearer to select position: over-the-head, behind-the-neck or under-the-chin.

Part No.	Description	SLC <sub>80</sub>	Class
1011145	C2	26dB	5



C2





## Noise-blocking earmuffs

### Clarity™ FOLDING EARMUFFS

#### FEATURES AND BENEFITS

- Convenient folding design for easy storage.
- Belt storage case also available.

Part No.	Description	SLC <sub>80</sub>	Class
1011143	C1F	24dB	4



### Clarity™ EAR CUPS

#### FEATURES AND BENEFITS

- Ear cups snap in place during use and swing back when not in use.
- Ear cups work with a wide range of hard hats.
- Pair of 1000244, 1000245 & 1000249 adapters included.

Part No.	Description	SLC <sub>80</sub>	Class
1011242	C1H	24dB	4
1011243	C3H	27dB	5



### Leightning®

With its steel construction, the Leightning series delivers high performance and durability that withstands daily wear and tear without compromising comfort.

#### FEATURES

- Patented Air Flow Control™ for optimum attenuation across all frequencies, without increasing size or weight.
- Snap-in ear cushions make replacement quick and easy.
- Padded foam headband for long-term comfort with minimal pressure on the head.
- Multiple attenuation levels for attenuation targeted at different environments.
- Telescopic height adjustment ensures that the earmuffs remain fixed during use.
- Superior comfort - the ultra slim L0 models are ideal when compact earmuffs, reliable protection and a high degree of comfort are required.
- HV (high visibility) and reflective models which illuminate under light for enhanced visibility and safety. Ideal for wearing at night and in inclement weather conditions.

### Leightning® EARMUFFS

#### FEATURES AND BENEFITS

Comfortable over-the-head design ideal for many applications.

Part No.	Description	SLC <sub>80</sub>	Class
1010922	L1	29dB	5
1010923	L2	31dB	5
1010924	L3	33dB	5
1013941	L3HV	33dB	5



L3HV



L2



## Noise-blocking earmuffs



### Leightning® FOLDING EARMUFFS

#### FEATURES AND BENEFITS

- Folding headband for easy storage.
- Belt storage case also available.

Part No.	Description	SLC <sub>80</sub>	Class
1013461	L0F	25dB	4
1011997	L2F	30dB	5
1013942	L2FHV	30dB	5
1000251	Folding earmuff belt case		



ANSI S3.21-2002  
SN 10044  
LE 50M 1133



ANSI S3.21-2002  
SN 10044  
LE 50M 1133

### Leightning® HEAD STRAP EARMUFFS

#### FEATURES AND BENEFITS

- Sleek behind-the-neck design for use with face shields, visors, hard hats and other PPE.
- Includes attached elastic headband strap for better positioning.
- The L0N features ultra-slim, lightweight ear cups, ideal for use with welding masks.

Part No.	Description	SLC <sub>80</sub>	Class
1013460	L0N	25dB	4
1011994	L1N	30dB	5
1011995	L2N	31dB	5



ANSI S3.21-2002  
SN 10044  
LE 50M 1133



ANSI S3.21-2002  
SN 10044  
LE 50M 1133



ANSI S3.21-2002  
SN 10044  
LE 50M 1133

### Leightning® EAR CUPS

#### FEATURES AND BENEFITS

- Ear cups snap in place during use and swing back when not in use.
- Ear cups work with a wide range of hard hats.
- Pair of 1000244, 1000245 & 1000249 adapters included.
- Snap-in ear cushions make replacement quick and easy.

Part No.	Description	SLC <sub>80</sub>	Class
1012536	L1H	28dB	5
1012537	L2H	29dB	5
1014680	L1HHV	28dB	5



ANSI S3.21-2002  
SN 10044  
LE 50M 1133



ANSI S3.21-2002  
SN 10044  
LE 50M 1133



## Noise-blocking earmuffs

### Thunder®

The Thunder series is designed with everyday comfort in mind. Its dielectric construction withstands use and abuse, while protecting employees in electrical environments. Patented Air Flow Control™ technology provides optimal attenuation across all frequencies and snap-in ear cushions for easy maintenance.

#### FEATURES

- Dielectric construction suitable for all workplaces, especially electrical environments.
- Patented Air Flow Control™ for optimum attenuation across all frequencies, without increasing size or weight.
- Uniform headband pressure for all head sizes, providing better comfort for long-term wear.
- Non-deforming outer headband withstands rough treatment in the toughest workplaces.
- Quick-click height adjustment remains fixed during wear.
- Snap-in ear cushions make replacement quick and easy.

### Thunder® EARMUFFS

#### FEATURES AND BENEFITS

- Comfortable over-the-head design ideal for many applications.
- Ventilated inner headband minimizes pressure on the head and guarantees increased breathability in warm/humid climates (T2 and T3 only).

Part No.	Description	SLC <sub>80</sub>	Class
1010928	T1	29dB	5
1010929	T2	31dB	5
1010970	T3	33dB	5



### Thunder® FOLDING EARMUFFS

#### FEATURES AND BENEFITS

- Convenient folding design for easy storage.
- Belt storage case also available.

Part No.	Description	SLC <sub>80</sub>	Class
1011600	T1F	30dB	5
1000251	Folding earmuff belt case		



### Thunder® EAR CUPS

#### FEATURES AND BENEFITS

- Ear cups snap in place during use and swing back when not in use.
- Ear cups work with a wide range of hard hats.
- Pair of 1000244, 1000245 & 1000249 adapters included.

Part No.	Description	SLC <sub>80</sub>	Class
1012530	T1H	26dB	5
1012531	T2H	30dB	5
1012532	T3H	31dB	5



## Noise-blocking earmuffs



### Viking® MULTIPLE POSITION EARMUFFS

**Adjustable headband.**

#### FEATURES AND BENEFITS

- Adjustable headband allows wearer to select position: over-the-head, behind-the-neck or under-the-chin.
- The alternative to ear cups fitted to hard hats: compatible with hard hats, face shields, breathing masks and other PPE.
- Ventilated inner headband minimizes pressure on the head; breathes more easily in warm/humid climates.
- Non-deforming outer headband withstands rough treatment in the toughest workplaces.
- Snap-in ear cushions make replacement quick and easy.
- Elastic headband strap for better positioning.
- Dielectric construction suitable for all workplaces.
- Now with Air Flow Control™ technology.

Part No.	Description	SLC <sub>80</sub>	Class
1010925	Viking V1	28dB	5
1010926	Viking V2	30dB	5
1011170	Viking V3	32dB	5



### MACH™ 1

**Economical protection for short-term use.**

#### FEATURES AND BENEFITS

- Economic design offers good protection at a low price.
- Extremely light earmuffs.
- Dielectric construction.

Part No.	Description	SLC <sub>80</sub>	Class
1010421	Mach 1	25dB	4





## Noise-blocking earmuffs

### Impact®

Impact earmuffs enhance the perception of certain sounds through advanced sound amplification technology. Wearers hear important sounds in their environment – co-workers, alarms and warning signals – at a safely amplified level. Helps eliminate the feeling of isolation.

#### FEATURES

- Amplification of ambient sounds limited to a safety level of 82 dB – response technology reverts to passive hearing protection if the noise reaches 82 dB.
- Sound amplification increases communication and awareness – employees can hear alarms/warning signals, co-workers' voices.
- Directional stereo microphones amplify and enhance sound for more natural hearing.
- Snap-in ear cushions make replacement quick and easy.
- Impact Sport and Impact Pro have the basic features of the Impact range, with added features designed for sport shooting and field use.
- 3.5mm AUX input can be connected to MP3 players and smart phones.
- Ideal for recreational and professional shooting, both indoors and outdoors.

### Impact® Sport FOLDING EARMUFFS

#### FEATURES AND BENEFITS

- Patented Air Flow Control™ technology for optimum attenuation across all frequencies.
- Convenient folding design for easy storage.
- Automatic shut-off after 4 hours.
- Includes 2 AAA batteries for 350 hours of use.
- Belt storage case also available.
- Low-profile design with cut-out for full clearance of firearm eliminates interference while shooting

Part No.	Description	SLC <sub>80</sub>	Class
1013530	Impact Sport	24dB	4
R-10530	Impact Sport Camo	24dB	4



### Impact® PRO EARMUFFS

#### FEATURES AND BENEFITS

- Amplifies low volume sound and conversation (4 times as loud).
- Easy to use: just one volume control button.
- Includes 2 AAA batteries – 4-hour auto shut-off extends battery life.
- 3.5mm AUX input can be connected to MP3 players and smart phones.
- Ideal for recreational and professional shooting, both indoors and outdoors.
- Patented Air Flow Control™ technology for optimum attenuation across all frequencies.

Part No.	Description	SLC <sub>80</sub>	Class
1018953	Impact PRO	31dB	5





## Accessories

### BELT CLIP

#### FEATURES AND BENEFITS

A simple and convenient solution for attaching earmuffs to a belt or pocket when not in use. Lightweight, low profile design.



Part No.	1016730
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### OPTISORB®

#### FEATURES AND BENEFITS

Washable, 100% cotton sleeve slides over ear cup to absorb sweat or conserve warmth. Optisorb provides optimum comfort and hygiene in all weathers. Fits all Howard Leight earmuffs.



Part No.	Description
OPSB	Box of 50

### HYGIENE KITS

#### FEATURES AND BENEFITS

For extended earmuff performance and life as well as improved hygiene, snap-in ear cushions and foam inserts should be replaced every 6 months, or more often with heavy use. Each kit comes with one pair of ear cushions and one pair of foam inserts.



Part No.	Description	Part No.	Description
1006080	Clarity® C1/C1F/C1H	1011999	Leightning L2/L2H/L2N/L2F/L2FHV
1006081	Clarity® C2/C3/C3H	1012000	Leightning L3/L3H/L3N/L3HV/Viking V3
1010974	Thunder® T1/T1H/T1F	1008000	Radio/Radio HV/Electo®/Electo H/Impact®/Impact H
1010975	Thunder T2/T2H/T2HV	1015280	Impact Sport/Sync Radio/Sync Radio HiViz/Sync Electro
1011998	Leightning® L1/L1H/L1N/L1N/L1HHV/Viking® V1	1030220	Sync/Impact PRO

### BILSOM COOL II EAR CUSHIONS

#### FEATURES AND BENEFITS

Absorbent ear cushions to improve overall comfort and hygiene. A dermatologically tested material absorbs 15 times its weight in moisture and keeps ears warm in cold climates. Bilsom® Cool ear cushions fit most makes of ear cup on the market.



Part No.	Description
1000365	Box of 5 pairs
1000364	Box of 100 pairs



## Accessories

### HARD HAT ADAPTERS

#### FEATURES AND BENEFITS

Howard Leight offers a selection of snap-on adapters to fit a variety of hard hats. The durable plastic styles withstand demanding conditions.

Part No.	Description
1000244	3713 / Prosafe/Norton/NZ Safety
1000245	3714 / Protector, Cig, Unisafe, Paramount, Scott, ProChoice
1000249	3718 / MSA



### HONEYWELL HARD HATS

Honeywell Hard Hats are fully compatible with a range of Howard Leight™ Hearing Protection. Hard Hats are available in a variety of styles, colours and materials including ABS, Polycarbonate and Seethru Polycarbonate to suit your workplace requirements. Our Seethru hard hats increase the range of overhead vision, improving safety while still providing complete hard hat protection and are U.V 400 rated so perfect for outdoor use. Pad printing is also available for your business logo or message on up to 8 positions and 4 colours.



Vented

Unvented



Unvented Mining

Seethru



Pad Printing



Solid colours



Seethru colours

### FOLDING EARMUFF BELT CASE

#### FEATURES AND BENEFITS

Durable nylon with belt loops and easy-to-open Velcro® flap. Folds flat. Fits Leightning® L2F, Leightning® Hi-Visibility L2FHV, Thunder® T1F, Clarity® C1F and Impact® Sport earmuffs.

Part No.	1000251
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## Attenuation data

Class testing in accordance with AS/NZS 1270:2002

### Single-Use Earplugs

<b>Max® MAX-1/Corded Max-30</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	29.4	29.0	30.1	30.2	33.2	42.8	42.7	26dB	5	
Std. Deviation dB	9.4	9.7	9.5	7.7	4.7	5.1	6.9			

<b>Laser Lite® LL-1/Corded LL-30</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	24.4	23.6	25.6	26.5	32.3	42.0	42.5	25dB	4	
Std. Deviation dB	6.9	5.9	5.5	5.4	4.3	4.7	6.7			

<b>303 sml 1005074/Ige 1005073</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	22.3	21.6	23.4	24.8	32.8	39.6	41.7	22dB	4	
Std. Deviation dB	7.3	7.2	7.8	7.0	6.4	8.8	9.5			

<b>304 Corded sml 1000107/Ige 1000106</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	23.6	22.9	24.9	25.1	32.8	39.8	43.6	24dB	4	
Std. Deviation dB	6.8	7.3	6.4	5.6	5.0	7.6	6.8			

<b>Max Lite® LPF-1/Corded LPF-30</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	24.2	23.6	25.3	26.2	32.0	41.8	43.6	25dB	4	
Std. Deviation dB	5.2	5.1	6.7	5.4	4.0	4.8	5.6			

<b>Multi Max® MM-1</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	26.7	25.3	26.0	27.1	32.4	39.6	42.7	24dB	4	
Std. Deviation dB	5.6	5.7	7.6	6.8	5.0	6.3	7.9			

<b>X-Treme® 1006716/Corded 1006717</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	22.5	24.0	27.1	28.5	32.6	39.8	42.9	26dB	5	
Std. Deviation dB	6.6	6.1	4.8	6.3	5.2	4.1	5.2			

<b>FirmFit™ FF-1/Corded FF-30</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	23.5	21.8	25.7	26.6	35.1	38.4	40.3	22dB	4	
Std. Deviation dB	10.9	9.7	10.3	6.8	6.5	7.8	7.9			

### Multiple-Use Earplugs

<b>Quiet® QD-1</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	21.3	20.1	20.5	22.7	28.5	40.6	39.3	20dB	3	
Std. Deviation dB	9.2	7.3	7.5	6.2	4.7	9.3	8.7			

<b>Quiet® Corded QD-30</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	27.5	26.5	27.6	28.1	32.5	42.1	42.7	23dB	4	
Std. Deviation dB	9.0	9.8	10.7	8.8	6.5	7.8	7.9			

<b>AirSoft® AS-1, AS-30R, DPAS-30R, DPAS-30W</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	33.0	32.6	32.3	31.9	33.9	35.6	40.6	26dB	5	
Std. Deviation dB	8.1	9.3	10.2	9.3	6.5	8.4	6.1			

<b>SmartFit® Uncorded SMF-30A</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	20.4	20.8	22.4	25.2	30.4	33.4	37.8	20dB	3	
Std. Deviation dB	8.0	9.3	9.0	8.6	5.9	7.6	8.0			

<b>SmartFit® Cotton corded SMF-30W-PA</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	19.8	21.1	22.0	21.4	27.4	31.2	36.7	16dB	2	
Std. Deviation dB	12.2	10.3	9.9	9.6	8.4	8.5	11.3			

<b>Clarity® Earplugs Small and Regular</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	19.4	22.1	24.9	26.2	27.4	26.6	37.1	21dB	3	
Std. Deviation dB	8.2	8.0	6.5	6.6	5.6	4.7	7.8			

<b>Fusion® Earplugs Small and Regular</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	24.8	24.4	24.5	27.2	27.6	35.0	42.3	22dB	3	
Std. Deviation dB	5.2	5.9	6.1	5.8	6.5	11.5	7.6			

### Detectable Earplugs

<b>SmartFit® Detectable SDT-30A/Blue SMF-30BUA</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	19.8	21.1	22	21.4	27.4	31.2	36.7	16dB	2	
Std. Deviation dB	12.2	10.3	9.9	9.6	8.4	8.5	11.3			

<b>Fusion™ Detectable Regular FDT-30A/Small FDT-30-SMA</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	24.3	23.3	26.2	28.5	31.6	33.4	40.0	22dB	4	
Std. Deviation dB	9.1	9.5	9.2	10.2	6.1	10.8	10.3			

<b>LaserTrak® LT-30</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	24.9	25.6	25.9	27.1	30.9	41.2	44.0	25dB	4	
Std. Deviation dB	7.3	5.5	7.5	5.9	4.6	6.0	5.4			

### Banded Earplugs

<b>QB1HYG® Banded (under chin)</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	21.4	19.9	17.5	19.4	24.6	34.8	35.9	16dB	2	
Std. Deviation dB	10.0	8.0	8.3	6.9	6.3	9.5	8.6			

<b>QB2HYG® Banded (under chin)</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	25.8	23.1	20.2	22.4	30.6	37.5	40.4	21dB	3	
Std. Deviation dB	7.8	7.3	5.8	4.7	5.3	5.8	6.3			

<b>QB3HYG® Banded (under chin)</b> According to test method AS/NZS 1270:2002										
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class	
Mean Value dB	23.2	20.0	18.4	20.6	28.6	32.9	35.9	20dB	3	
Std. Deviation dB	6.9	6.2	4.9	3.9	5.1	4.0	5.7			

## Attenuation data

<b>PerCap® Over-head 1000276</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	23.7	19.2	17.5	20.0	31.2	36.8	41.0	20dB	3
Std. Deviation dB	5.9	4.5	3.6	4.0	4.0	5.2	5.9		

<b>PerCap® Behind-head</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	25.0	22.5	20.0	21.2	31.6	35.5	41.1	22dB	4
Std. Deviation dB	5.4	5.6	4.9	3.5	3.9	4.7	4.4		

<b>PerCap® Under-chin</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	22.3	19.0	18.3	19.0	31.3	37.2	39.9	20dB	3
Std. Deviation dB	4.5	4.2	4.4	4.0	3.1	4.2	6.0		

<b>Leightning® L2H Cap-mounted 1012537</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	17.9	22.3	28.9	31.4	31.4	37.5	39.1	29dB	5
Std. Deviation dB	2.4	2.9	3.4	3.6	3.5	4.6	3.1		

<b>Leightning® L3 Headband 1010924</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	22.2	26.3	33.3	37.6	35.1	38.1	39.2	33dB	5
Std. Deviation dB	4.3	3.9	3.5	3.9	2.5	2.1	1.7		

<b>Leightning® L3HV Headband 1013941</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	22.2	26.3	33.3	37.6	35.1	38.1	39.2	33dB	5
Std. Deviation dB	4.3	3.9	3.5	3.9	2.5	2.1	1.7		

<b>Thunder® T1 Headband 1010928</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	17.7	21.7	27.2	31.6	33.6	32.6	36.1	29dB	5
Std. Deviation dB	3.4	3.0	2.6	2.2	2.3	4.0	4.4		

<b>Thunder® T1H Cap-mounted 1012530</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	16.4	19.1	25.5	31.6	31.6	34.2	37.0	26dB	5
Std. Deviation dB	5.2	5.2	4.2	3.5	3.8	4.7	6.1		

<b>Thunder® T1F Folding 1011600</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	19.2	21.9	27.6	32.3	33.1	36.4	38.5	30dB	5
Std. Deviation dB	3.2	2.3	2.5	3.2	3.4	3.6	3.7		

<b>Thunder® T2 Headband 1010929</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	21.2	26.0	31.5	34.6	34.2	33.6	37.0	31dB	5
Std. Deviation dB	3.7	3.1	4.0	2.2	3.0	2.6	3.8		

<b>Thunder® T2H Cap-mounted 1012531</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	18.7	23.8	29.5	33.3	32.9	35.8	39.3	30dB	5
Std. Deviation dB	3.8	4.3	2.8	2.9	2.6	3.1	2.9		

<b>Thunder® T3 Headband 1010970</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	21.2	26.2	32.1	35.7	36.6	38.7	40.1	33dB	5
Std. Deviation dB	2.5	2.7	3.1	3.9	2.6	3.4	2.9		

<b>Thunder® T3H Cap-mounted 1012532</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	22.2	26.4	32.3	36	32.4	38.6	40.6	31dB	5
Std. Deviation dB	4.1	3.7	4.0	1.9	3.2	2.8	4.0		

<b>Mach™ 1 1010421</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	13.7	14.3	21.8	31.8	32.3	30.6	31.7	25dB	4
Std. Deviation dB	3.1	2.1	3.4	3.3	2.7	3.5	3.8		

<b>Viking® V1 Over-head 1010925</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	19.3	22.6	26.8	30.6	32.6	37.6	36.0	28dB	5
Std. Deviation dB	4.2	3.8	4.4	3.6	3.5	3.3	4.2		

<b>Viking® V1 Under-chin</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	15.2	19.6	25.7	30.6	31.1	36.5	34.7	27dB	5
Std. Deviation dB	4.2	4.0	3.6	1.7	3.7	4.1	2.6		

<b>Viking® V1 Behind-head</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	15.1	19.3	24.9	29.7	30.0	36.4	32.9	26dB	5
Std. Deviation dB	3.3	3.1	3.1	3.7	4.2	4.1	3.4		

<b>Viking® V2 Over-head 1010926</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	18.5	23.1	28.2	33.1	33.4	35.5	36.0	30dB	5
Std. Deviation dB	3.6	4.4	3.4	3.2	2.4	2.5	3.8		

## Noise Blocking Earmuffs

<b>Leightning® L1 Headband 1010922</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	19.6	21.9	27.5	31.6	31.7	36.9	38.3	29dB	5
Std. Deviation dB	3.9	3.5	3.7	2.3	3.6	2.5	2.4		

<b>Leightning® L1N Neckband 1011994</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	18.5	22.3	28.4	32.0	32.5	37.5	39.7	30dB	5
Std. Deviation dB	2.8	3.8	2.9	2.4	3.4	2.7	3.2		

<b>Leightning® L1H Cap-mounted 1012536</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	17.6	20.1	25.9	29.8	31.5	37.4	40.9	28dB	5
Std. Deviation dB	2.9	3.4	3.0	3.7	2.9	2.9	3.4		

<b>Leightning® L1HHV Cap-mounted 1014680</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	17.6	20.1	25.9	29.8	31.5	37.4	40.9	28dB	5
Std. Deviation dB	2.9	3.4	3.0	3.7	2.9	2.9	3.4		

<b>Leightning® L2 Headband 1010923</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	18.8	24.5	30.3	34.8	33.1	36.4	38.5	31dB	5
Std. Deviation dB	3.2	4.4	3.5	3.3	2.1	2.3	2.5		

<b>Leightning® L2N Neckband 1011995</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	21.4	25.4	30.7	33.4	33.6	37.3	39.5	31dB	5
Std. Deviation dB	3.2	3.4	2.8	3.4	2.4	4.2	4.0		

<b>Leightning® LON Neckband 1013460</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	15.2	17.0	21.8	25.5	29.0	38.9	38.9	25dB	4
Std. Deviation dB	3.4	3.1	2.3	2.0	3.1	2.5	2.9		

<b>Leightning® L2F Folding 1011997</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	20.8	24.6	30.0	31.6	32.0	38.9	39.4	30dB	5
Std. Deviation dB	2.9	2.3	2.9	2.9	2.4	2.6	2.9		

<b>Leightning® LOF Folding 1013461</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	15.6	18.6	22.9	24.5	30.6	39.4	39.6	25dB	4
Std. Deviation dB	3.9	2.9	3.1	2.0	3.7	2.6	1.7		

<b>Leightning® L2FHV Folding 1013942</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	20.8	24.6	30.0	31.6	32.0	38.9	39.4	30dB	5
Std. Deviation dB	2.9	2.3	2.9	2.9	2.4	2.6	2.9		

## Attenuation data



<b>Viking® V2 Behind-head</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	16.6	20.9	27.3	32.0	32.8	34.8	33.9	29dB	5
Std. Deviation dB	3.7	3.8	3.9	2.5	3.3	3.0	3.3		

<b>Viking® V2 Under-chin</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	16.9	23.2	28.6	32.3	33.0	36.6	35.1	30dB	5
Std. Deviation dB	3.5	3.4	2.9	2.3	2.5	3.7	3.0		

<b>Viking® V3 Over-head 1011170</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	20.2	26.9	31.5	37.0	35.2	36.3	38.0	32dB	5
Std. Deviation dB	3.8	2.7	3.4	3.8	3.3	3.4	3.1		

<b>Viking® V3 Behind-head</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	18.7	23.5	30.9	34.9	32.7	34.9	34.9	30dB	5
Std. Deviation dB	3.4	3.4	2.5	2.3	3.1	4.4	4.3		

<b>Viking® V3 Under-chin</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	20.8	25.4	32.3	36.3	34.6	37.9	36.7	32dB	5
Std. Deviation dB	3.3	2.8	2.3	3.3	4.3	3.5	4.9		

## Sound Management Earmuffs

<b>Clarity® C1 Headband 1011142</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	16.5	21.7	25.4	24.0	28.1	31.0	32.0	23dB	4
Std. Deviation dB	4.3	4.9	4.6	2.7	5.6	3.7	3.1		

<b>Clarity® C1H Cap-mounted 1011242</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	16.0	22.0	26.8	25.1	25.9	31.4	31.1	24dB	4
Std. Deviation dB	5.8	4.8	3.7	2.3	3.4	4.7	4.1		

<b>Clarity® C1F Folding 1011143</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	15.8	23.6	27.0	23.3	26.6	34.6	31.7	24dB	4
Std. Deviation dB	1.6	3.4	1.7	2.8	2.8	2.8	4.9		

<b>Clarity® C2 Headband 1011145</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	17.8	24.9	28.7	26.6	29.5	28.5	29	26dB	5
Std. Deviation dB	3.0	3.0	2.5	2.7	2.9	3.2	2.9		

<b>Clarity® C2 Behind-head</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	18.8	23.5	29.1	26.2	30.5	28.1	27.8	26dB	5
Std. Deviation dB	4.5	2.7	3.6	2.1	3.8	3.2	2.8		

<b>Clarity® C2 Under-chin</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	20.5	24.4	29.6	26.3	30.2	29.5	29.8	26dB	5
Std. Deviation dB	3.7	2.6	2.9	2.8	3.8	3.9	3.0		

<b>Clarity® C3 Headband 1011146</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	22.7	27.0	34.3	30.3	30.5	34.5	34.9	28dB	5
Std. Deviation dB	5.2	7.0	4.6	4.4	4.5	3.8	3.6		

<b>Clarity® C3H Cap-mounted 1011243</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	19.2	26.5	32.9	29.6	28.5	33.9	33.5	27dB	5
Std. Deviation dB	6.2	6.2	6.2	2.6	3.1	3.2	2.2		



## Radio Earmuffs

<b>Sync™ Electro® Headband 1030333</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	16.3	19.0	24.0	28.9	30.7	35.6	35.0	26dB	5
Std. Deviation dB	5.5	4.3	2.5	3.1	3.8	4.5	3.8		

<b>Sync™ Electro® Cap-mounted 1030334</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	15.0	16.0	22.4	27.2	28.9	34.6	34.3	23dB	4
Std. Deviation dB	5.4	4.7	4.9	4.1	5.0	3.0	4.8		

<b>Sync™ High-Vis 1030332</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	16.3	19.0	24.0	28.9	30.7	35.6	35.0	26dB	5
Std. Deviation dB	5.5	4.3	2.5	3.1	3.8	4.5	3.8		

<b>Sync™ Black 1030330</b> According to test method AS/NZS 1270:2002									
Frequency/Hz	125	250	500	1000	2000	4000	8000	SLC80	Class
Mean Value dB	16.3	19.0	24.0	28.9	30.7	35.6	35.0	26dB	5
Std. Deviation dB	5.5	4.3	2.5	3.1	3.8	4.5	3.8		

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