



HEARING PROTECTION

THE DECIBEL CHART

Scan QR Code
for Noise
Thermometer
Chart:



Conversation



Hair Dryer



Baby Crying



Thunder



Firecracker



Dishwasher



Vacuum



Telephone



Fire Alarm



Bulldozer



Ambulance Siren



Hammer



Pneumatic Drill



Dynamite



Jet Engine



Rifle

60dB

70dB

80dB

90dB

100dB

110dB

120dB

130dB

140dB

150dB

160dB

Moderate to Quiet

Loud
Non-Hazardous

Very Loud
Hearing protection
REQUIRED for exposure
over **8 hours** to prevent
damage

Extremely Loud

Short Exposures at
This Level May Cause
Hearing Damage and
Ringing in Ears

Threshold of Pain

Maximum Allowable
Exposure, Even with
Hearing Protection

Immediate
Physical Damage

THE DECIBEL CHART

Operating in a noisy workplace that's louder than 85 decibels (dB)? You'll need individual Hearing Protection Devices (HPDs)! Working in areas with dangerous noise levels without a proper HPD can result in hearing loss or deafness. Protect your hearing today with our extensive range of HPDs to choose from: **earplugs, earmuffs, and hearing bands.**

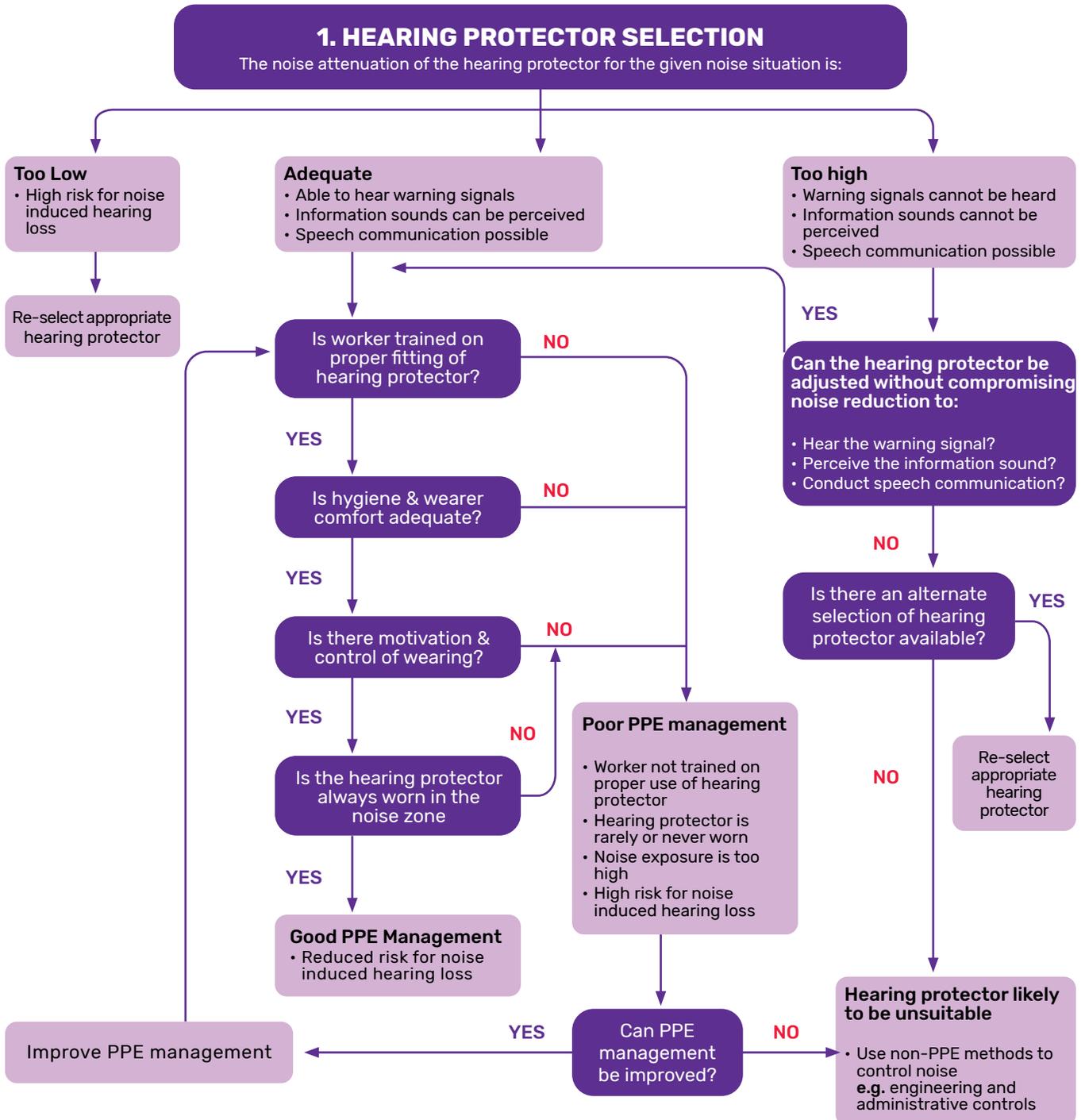
It can be challenging to find a HPD that's just right for your workplace. If the Noise Reduction Rating is too high, your employees won't be able to communicate well or listen for warning signals. But HPDs are very important! Hearing loss can occur if overprotected employees remove their HPDs to talk or don't wear their HPDs properly.

Type of HPD	Construction	Fitting
Formable earplugs	Expandable foam	One size fits most.
Pre-molded earplugs	Flexible plastics	Different sizes
Semi-aural devices/ canal caps	Flexible tips on lightweight headband	Less protection. Good for intermittent usage
Earmuffs	Rigid cups with soft, plastic cushions that seal around the ears.	Adjustable headband



FLOW CHART

THE SELECTION OF HEARING PRODUCTS*



* Quoted from page 22 of SS549:2009 standards

PROTECTED NOISE LEVEL CALCULATIONS USING NRR*

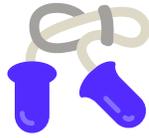
DE-RATED NRR

NIOSH RECOMMENDS DERATING THE NRR BY A MULTIPLICATIVE FACTOR:



EARMUFFS

75%



FORMABLE EARPLUGS

50%



ALL OTHER EARPLUGS

30%

HOW TO USE THE DE-RATED NRR?

There are two basic formulas, depending on whether unprotected exposure levels were measured on a C-weighted (dBC) or an A-weighted (dBA) scale.

For C-weighted measurements:

Protected dBA = Unprotected dBC - De-rated NRR
Where the protected dBA and unprotected dBC are 8-hour time-weighted averages determined according to the Occupational Noise Standard.

For example, if a earmuff has a NRR of 20 dB (derated NRR of 15 dB) and it is used in an environmental noise level of 90 dBC, the noise level entering the ear is expected to be 75 dBA [90 - 15 = 75].

For A-weighted measurements:

Protected dBA = Unprotected dBA - [De-rated NRR - 7]
Where the protected and unprotected dBA are 8-hour weighted averages determined according to the Occupational Noise Standard. The 7 dB correction factor is used to account for the de-emphasis of low-frequency energy inherent to the A-weighting scale (dBA).

Using the same example above, if a earmuff has a de-rated NRR of 15 dB and environmental noise level of 90dBA, the noise level entering the ear is expected to be 82 dBA [90 - (15 - 7) = 82]

* Adapted from Honeywell:

<https://safety.honeywell.com/content/dam/his/en-us/images/gated-content/lp-hearing-conservation/his-a%26c-weighted-noise-measurements.pdf>

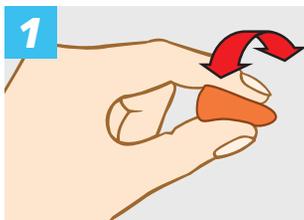
EARPLUG FITTING INSTRUCTIONS[^]

To get the best protection, ensure that your earplugs are inserted properly and fits well.

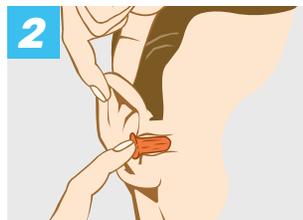
1 ROLL-DOWN FOAM



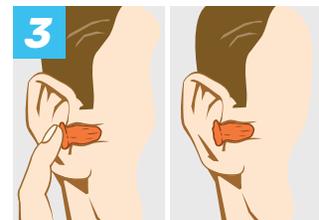
MAX®



With clean hands, roll the entire earplug into narrowest possible crease-free cylinder.



Reach over your head with a free hand, pull your ear up and back, and insert the earplug well inside your ear canal.



Hold for 30 - 40 seconds, until the earplug fully expands in your ear canal. If properly fitted, the end of the earplugs should not be visible to someone looking at you from the front.

2 MULTIPLE-USE



SmartFit®



While holding the stem, reach a had over your head and gently pull top of your ear up and back.



Insert the earplug so all flanges are well inside your ear canal.



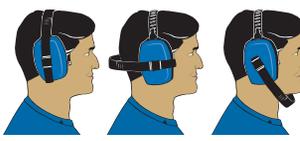
If properly fitted, the tip of the earplug stem may be visible to someone looking at you from the front.

[^] Adapted from Honeywell:

https://safety.honeywell.com/content/dam/his-sandbox/marketing/hearing-protection/documents/HL_posters_honeywell_howard_leight_earplug_fitting_instructions_poster_2017.pdf

EARPLUG FITTING INSTRUCTIONS[^]

To get the best protection, ensure that your earplugs are inserted properly and fits well.

 HEADBAND	 FOLDING	 MULTIPLE-POSITION	 CAP-MOUNTED
<p>Moldex MX-5</p>  <p>1</p>  <p>Place earcups over each ear.</p> <p>2</p>  <p>Adjust the headband by sliding the headband up or down.</p>	<p>Verishield VS120F</p>  <p>1</p>  <p>Fold out the earcups as shown.</p> <p>2</p>  <p>Place earcups over each ear.</p> <p>3</p>  <p>Adjust the headband by sliding the headband up or down.</p>	<p>Verishield Dielectric VS110M</p>  <p>1</p>  <p>Place the earcups over each ear.</p> <p>2</p>  <p>Place the earcups over each ear.</p> <p>3</p>  <p>Multiple-position earmuffs can be worn over-the-head, behind-the-head or under-the-chin.</p> <p>4</p>  <p>When the earmuff is worn with the headband behind-the-head or under-the-chin, the headband strap must be attached to the slot in the upper part of the earcup as shown.</p>	<p>Verishield Dielectric VS130DH</p>  <p>1</p>  <p>Attach adapters to each side of the hard hat by sliding them into the slots.</p> <p>2</p>  <p>Attach each earmuff into its adapter by sliding the earmuff housing down into the adapter.</p> <p>3</p>  <p>Ensure a proper fit by firmly pushing down on the earcup until you hear it click into place.</p> <p>4</p>  <p>Ensure that the earmuff is firmly fastened by lifting the arm attachment up and down.</p>

[^] Graphics adapted from Honeywell:

https://safety.honeywell.com/content/dam/his-sandbox/marketing/hearing-protection/documents/HL_posters_honeywell_howard_leight_earmuff_fitting_instructions_poster_2017.pdf



DISPOSABLE EARPLUGS

HOWARD LEIGHT EARPLUGS

- Ideal size for workers with smaller ear canals
- Low pressure polyurethane foam expands gently for comfortable long-term wear
- Contoured T-shape for easy handling and wear
- Closed, soil-resistant cell-foam skin prevents dirt build-up
- Bulk refills available for Leight® Source LS-400 and LS-500 Earplug Dispensers



LASER LITE®
LL1 / LL30



NRR 32

MAX®
MAX1 / MAX30



NRR 33



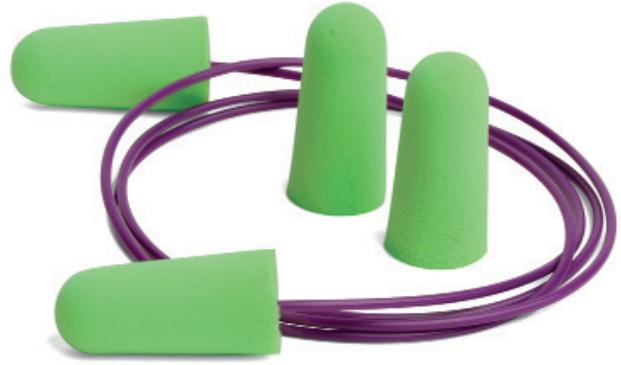
Sealed packaging ensures tamper-free

BRAND	PRODUCT CODE	DESCRIPTION
HOWARD LEIGHT	HLULL-1	Laser Lite® Uncorded, Polybag, NRR 32 (200prs/box)
HOWARD LEIGHT	HLULL-30	Laser Lite® Corded, Polybag, NRR 32 (100prs/box)
HOWARD LEIGHT	HLUMAX-1	Max® Uncorded, Polybag, NRR 33 (200prs/box)
HOWARD LEIGHT	HLUMAX-30	Max® Corded, Polybag, NRR 33 (100prs/box)

DISPOSABLE EARPLUGS

MOLDEX PURA-FIT® FOAM EARPLUGS

- 100% PVC-Free®
- Longer length for easy fitting and removal
- Bright green colour for compliance checks
- Tapered for easy insertion for most ear canal sizes
- Non-irritating, smooth surface for added comfort
- Hygienically packaged in biodegradable paper pouches



Nrr³³

BRAND	PRODUCT CODE	DESCRIPTION
MOLDEX	MMI6800	Pura-Fit® Disposable Earplugs, Uncorded, NRR 33, (200prs/box, 10box/case)
MOLDEX	MMI6900	Pura-Fit® Disposable Earplugs, Corded, NRR 33, (100prs/box, 20box/case)

HOWARD LEIGHT X-TREME® EARPLUGS

- Bright colours offer high visibility and worker compliance
- Smooth tapered shape for easy insertion and removal
- Corded version helps to guard against earplugs falling onto the floor
- Conveniently sized hand dispensing option for easy access
- Wall dispenser unit allows a refillable option for the whole work area



Nrr³²

BRAND	PRODUCT CODE	DESCRIPTION
HOWARD LEIGHT	HLUXTR-1	X-Treme® Uncorded, Polybag, NRR 32 (200prs/box)
HOWARD LEIGHT	HLUXTR-30	X-Treme® Corded, Polybag, NRR 32 (100prs/box)

PLUGSTATIONS/DISPENSER



MOLDEX CORDED/UNCORDED PLUGSTATION® WITH PURA-FIT®

- Increases compliance
- Puts plugs in easily accessible areas
- Sealed PlugStations ensure plugs stay sanitary
- Affordable enough to mount in any location that requires hearing protection
- Clicking mechanism for easy use and dispensing



PURA-FIT®
6882

Nrr 33



PURA-FIT®
6844/6845

Nrr 33

BRAND	PRODUCT CODE	DESCRIPTION
MOLDEX	MMI6882	Plugstation 150 Pairs of Pura-Fit® Corded, NRR 33 (with Mounting Bracket)
MOLDEX	MMI6844	Plugstation with 250 Pairs of Pura-Fit® Plug, NRR 33 (250prs/6box-disp/case)
MOLDEX	MMI6845	Plugstation with 500 Pairs of Pura-Fit® Plug, NRR 33 (500prs/4box-disp/case)

PLUGSTATIONS/DISPENSER



HONEYWELL HL400™ ANTIMICROBIAL PROTECTED DISPENSER

- Antimicrobial-Protected Dispenser
- Universal hole positions – eliminates the need to drill new holes
- Durable, recyclable plastic canister – an economical choice for dispensing earplugs
- Easy twist knob with 180° of access – makes dispensing earplugs easy
- Compatible with all Howard Leight™ disposable earplugs – MAX®, MAXLite®, Laser Lite® and X-TREME®
- Available with prefilled canister and multiple refill options: Replace the empty canister / Refill the canister with a traditional zip-top bag.

Snr 33

BRAND	PRODUCT CODE	DESCRIPTION
HOWARD LEIGHT	HLUHL400	Earplugs Dispenser HL400 Light Frame
HOWARD LEIGHT	HLUHL400-AM	Dispenser Antimicrobial Knob-frame
HOWARD LEIGHT	HLUHL400-XTR-REFILL	Prefilled Canister for HL 400 (400prs/case) Model (X): MAX (Max®), LPF (Max Lite®), LL (Laser Lite®), XTR (X-Treme®)
HOWARD LEIGHT	HLUXTR-LS4-REFILL	Refill for Dispenser (200prs/bag) Model (X): MAX (Max®), LPF (Max Lite®), LL (Laser Lite®), XTR (X-Treme®)

PLUGSTATIONS/DISPENSER



Snr³⁷

HOWARD LEIGHT LS-500 LEIGHT® SOURCE DISPENSER

- Heavy-duty anodized aluminium withstands constant use
- Mount on wall for easy access
- Crank handle to dispense earplugs
- Ideal for large factories and process industries
- Holds 500 pairs of single use earplugs
- Max®, Max Lite®, Laser Lite®, Quiet® bulk bag refills available

BRAND	PRODUCT CODE	DESCRIPTION
HOWARD LEIGHT	HLULS-500	Ear Plug Dispenser LS-500
HOWARD LEIGHT	HLUMAX-1-D	Max®, Uncorded, Refill for LS-500 (500prs/box)
HOWARD LEIGHT	HLULL-1-D	Laser Lite® Uncorded, Refill for LS-500, NRR32 (500prs/box)

REUSABLE EARPLUGS

WORKSAFE® TRI-FLANGE PLUGS



SIRIM
CERTIFIED TO BS EN 352-2 : 2020
CERTIFICATION NO : PC012319
JKKP



Nrr²⁵

Snr³¹

- The WORKSAFE Tri-Flange Plugs are a convenient and reusable tool that safeguards your hearing in loud environments
- Comes with a carrying case and cord for easy storage and deployment
- This product has been tested according to EN352-2:2020 and ANSI S3.19



BRAND	TYPE	PRODUCT CODE	DESCRIPTION
WORKSAFE®	Earplugs	WSPTRIFL	Tri-Flange Plugs, Corded in BB Box w Chain, SNR 31db, NRR 25db (100pair/box,10box/case)

REUSABLE EARPLUGS

MOLDEX ROCKETS® EARPLUGS

- 100% PVC-Free®
- Easy grip handle for insertion and removal
- Air bubble tip provides cushioned comfort
- Brightly coloured for easy compliance checks
- Can be washed and reused
- Pocket-Pak® carrying case provides hygienic storage of plugs between uses

BRAND	PRODUCT CODE	DESCRIPTION
MOLDEX	MMI6405	Rocket Earplug Corded with Case, NRR 27 (50prs/box, 4box/case)



Nrr 27

MOLDEX JETZ® REUSABLE EARPLUGS

- 100% PVC-Free®
- Extra-soft material
- Triple flange design seals gently and snugly without pressure
- Cloth cord for a variety of working conditions locks securely to plug
- Bright green plugs and cord make compliance checks quick and easy

BRAND	PRODUCT CODE	DESCRIPTION
MOLDEX	MMI6455	Jetz® Reusable Corded Earplug, NRR 27 (50prs/box, 4box/case)



Nrr 27

MOLDEX FLIP TO LISTEN™ DUAL MODE REUSABLE EARPLUGS

- 100% PVC-Free®
- Flip cap allows you to easily switch from a closed position (NRR 24dB) to an open position (NRR 4dB)
- Triple flange design provides all day comfort
- Earplugs can be washed and reused
- Pocket-Pak® carrying case provides hygienic storage of plugs between uses
- Comes with optional cloth cord

BRAND	PRODUCT CODE	DESCRIPTION
MOLDEX	MMI6770	Flip To Listen Dual Mode Earplugs, Includes Cord and Pocket-pak® (50prs/box, 4box/case)



Nrr 24&4

REUSABLE EARPLUGS

HOWARD LEIGHT AIRSOFT® EARPLUGS

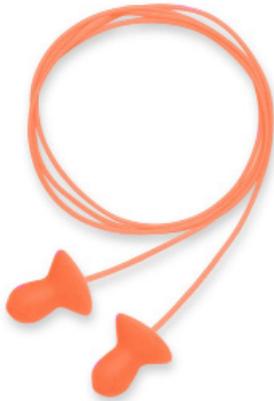
- Advanced air pocket design features internal noise-blocking fins
- Four flange profile creates better seal in the ear canal
- Firm stem, tapered shape makes for easy insertion and removal

Attachable Reusable Case For Easy Carriage & Help Keeps Earplugs Clean



Nrr²⁷

BRAND	PRODUCT CODE	DESCRIPTION
HOWARD LEIGHT	HLUAS-30R	Airsoft® Corded Red, Impact Case, NRR 27 (50prs/box)
HOWARD LEIGHT	HLUDPAS-30R	Airsoft® Corded Red, Polybag, NRR 27 (50prs/box)



Nrr²⁶

HOWARD LEIGHT QUIET® EARPLUGS

- Patented “no-roll” design is easy to handle and fit
- Contoured shape comfortably matches contours of the ear canal
- Smooth, non-irritating skin provides all-day comfort, easy to clean for long-term use
- Built-in insertion stem makes insertion quick and easy

BRAND	PRODUCT CODE	DESCRIPTION
HOWARD LEIGHT	HLUQD30	Quiet®, Corded, Polybag, NRR 26 (100prs/box)



Nrr²⁵

HOWARD LEIGHT SMARTFIT® EARPLUGS

- Patented Conforming Material Technology™ uses body heat to adapt to the individual shape of each wearer’s ear canal
- Delivers superior comfort and a truly individual fit
- Simplified inventory control - a single product fits almost every wearer
- Unique detachable cord system
- Comes in Hear Pack® storage case

BRAND	PRODUCT CODE	DESCRIPTION
HOWARD LEIGHT	HLUSMF-30	Smart Fit® Detachable Cord, Hearpack Case (100prs/box, 10box/case)

EARMUFFS



MX-5

Nrr 27

MOLDEX MX EARMUFF

- Soft cushion-ribbed open air headband for cool comfort all day long
- Overmolded headband is durable for rugged wear over many shifts
- Larger ear cushions allow freedom to fit almost all ears comfortably
- Lightweight wire frame allows easy cup adjustment yet holds its position
- PVC-Free



MX-7

Nrr 28

BRAND	PRODUCT CODE	DESCRIPTION
MOLDEX	MMI6120	MX-5 Earmuff, NRR 27
MOLDEX	MMI6140	MX-7 Earmuff, NRR 28

VERISHIELD™ 100 SERIES

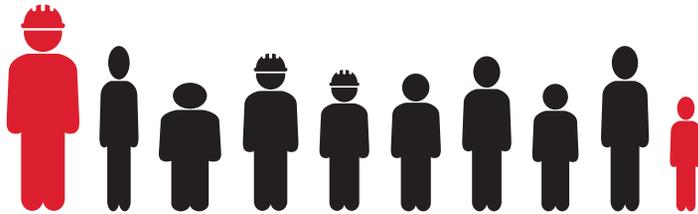
Honeywell
HOWARD
LEIGHT

VeriShield 100 Series

Passive Earmuffs are designed for optimum comfort



FEATURES



17%

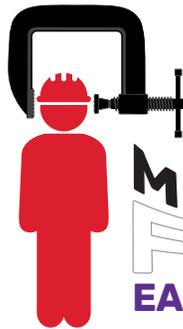
MORE ADJUSTMENT

Comfortably fits a wider range of head sizes



ROBUST CONSTRUCTION

Steel wire framework, ABS molded, durable markings, oil-resistant cup surface



MEMORY FOAM EAR CUSHIONS

Denser and softer for greater comfort/attenuation



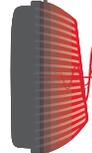
LIGHTWEIGHT

Cushioned Headband

Just the right fit around the ear

INTERNAL Baffle DESIGN

(PATENT PENDING)



Reduces weight of earcup and improves attenuation



PPE INTEGRATION

7 sec to assemble to a hard hat



VISIBLE ATTENUATION RATINGS

Marked on the earmuff cup

* Graphics adapted from Honeywell.

EARMUFFS



Snr³⁰

HONEYWELL VERISHIELD™ DIELECTRIC VS130DH, HELMET

- Large dimension range: Appropriate for a wide range of head sizes
- Durable dielectric headband for electrical environments
- Memory foam ear cushions: attenuation
- Wide cup opening: Ideal for workers with larger ears, or for those who wear hearing aids
- Variety of head attach options for effortless PPE integration

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	HON1035205-VS	Verishield™ Dielectric VS130DH, Helmet, SNR 30



Snr³²

HONEYWELL VERISHIELD™ VS120F, FOLDABLE EARMUFF

- Large dimension range: Appropriate for a wide range of head sizes
- Lightweight cushioned headband: Enhances comfort
- Memory foam ear cushions: attenuation
- Wide cup opening: Ideal for workers with larger ears, or for those who wear hearing aids

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	HON1035141-VS	Verishield™ VS120F, Folding, SNR 32



Snr³⁰

HONEYWELL VERISHIELD™ VS120H, HELMET

- Airflow control technology
- Steel wire construction
- Snap-in ear cushions
- NRR 23 (noise reduction rating)
- Helmet Style includes adapters for most hard hats

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	HON1035122-VS	Verishield™ VHelmet Earmuff, Ear Defenders, SNR 30

EARMUFFS



Snr ³²

HONEYWELL VERISHIELD™ VS110M, MULTIPOSITION

- Large dimension range: Appropriate for a wide range of head sizes
- Durable dielectric headband for electrical environments
- Memory foam ear cushions: attenuation
- Wide cup opening: Ideal for workers with larger ears, or for those who wear hearing aids
- Variety of head attach options for effortless PPE integration

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	HON1035185-VS	Verishield™ Dielectric VS110M, Multiposition, SNR 32



Snr ³⁵

HONEYWELL VERISHIELD™ DIELECTRIC, MULTIPOSITION

Industries:

- Building and Construction
- General Industry
- Maintenance

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	HON1035188-VS	Verishield™ Dielectric, Multiposition, SNR 35



Snr ³³

HONEYWELL VERISHIELD™ VS130, NECKBAND

- Large dimension range: Appropriate for a wide range of head sizes
- Lightweight cushioned headband
- Memory foam ear cushions: attenuation
- Wide cup opening: Ideal for workers with larger ears, or for those who wear hearing aids
- Robust construction

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	HON1035117-VS	Verishield™ VS130, Neckband, SNR 33