



HEARING PROTECTION

Protect Your Hearing

The right way to wear ear plugs



▶ STEP 1

Hold the ear plug between your thumb and forefinger, roll and compress the entire ear plug until the diameter is as small as possible.



▶ STEP 2

Use your other hand to reach over your head and pull up and back on your outer ear.



▶ STEP 3

When you are holding the ear, push the rolled end of the plug into your ear and hold for few seconds. This allows the ear plug to expand and fill the ear canal. Leaving enough of the ear plug outside the ear to allow removal.

▶ STEP 4

If you can cup your hands over your ears and the noise seems to decrease, your ear plugs are probably not fitted properly. Remove and refit following instructions.

Noise Levels

COMMON NOISE LEVELS

Sound Energy Doubles Every 3dB

Occupational	Non-Occupational
Artillery Fire 162dB	Shotgun 162dB
Immediate Physical Damage 160dB	
Jackhammer 130dB	Auto Racing 130dB
Immediate Pain Threshold 130dB	
Oxygen Torch 121dB Compactor 116dB	Rock Concert 120dB Chainsaw 118dB
Unprotected Noise Exposure of Any Duration Not Permitted Above This Level 115dB	
Diesel Truck Accelerating 114dB Industrial Fire Alarm 95dB Impact Wrench 102dB Bulldozer 100dB Table Saw 93dB	Power Lawnmower 94dB CD/MP3 Player 105dB Crying Baby 110dB Motorcycle 105dB Subway 90dB
Hearing Protection Required by OSHA 90dB	
Handsaw 85dB Normal Conversation 60dB	Propeller Airplane Cockpit 88dB
Hearing Protection Must Be Made Available 85dB	
Lathe 81dB Normal Conversation 60dB	Rainfall 50dB
Non-Hazardous Noise 75dB	
Transformer 50dB	Rainfall 50dB
Comfortable Sound 50dB	
Daytime Activity	Daytime Activity

When is it needed?

Hearing protectors should be provided to the employees when they are exposed to occupational noise. The table below shows the permissible noise exposures of specific levels for specific period of time.

Permissible Noise Exposures

Duration Per Day (Hours)	Sound Level (dBA)
8	90
6	92
4	95
3	97
2	100
1.5	102
1	105
0.5	110
0.25	115

What to look for in Hearing Protection?

- ▶ The Noise Reduction Rating (NRR) of the hearing protector must be sufficient to provide the protection required under the specific work environment.
- ▶ If communication among workers are crucial in the noisy environment, make sure that the hearing protector used will not severely impair their communication ability.
- ▶ Hearing protector must be comfortable to wear, otherwise the users might not want to use it continuously for long period, and thus reducing the protection intended.

Type of Hearing Protector

Disposable Ear Plugs	Normally made of soft material such as foam. Available in non-corded & corded versions.
Reusable Ear Plugs	Designed to be used over and over again. Normally made of PVC, Silicon, or other synthetic materials.
Ear Muffs	Provide better comfort especially for long period usage. The Noise Reduction Rating (NRR) provided is generally lower than ear plugs.
Communication Ear Muffs	Designed to filter out excessive noise while retaining the ability to communicate among the users.

Cleaning and Maintenance

- ▶ Hearing protectors such as reusable ear plugs & ear muffs should be cleaned regularly as the buildup of ear wax and grease will shorten the product lifespan.
- ▶ The protectors can be cleaned with mild soap and warm water. Avoid using abrasive cleaning agent.



SAFETYWARE EasyFit™ Disposable Ear Plugs

Item Code	Material	Protection Level	Color	Type	Shape	Packing	Unit
HP101	PU	NRR = 32dB, SNR = 35dB	Orange	Uncorded	Tapered	200 pairs/ box	Box
HP102	PU	NRR = 32dB, SNR = 35dB	Orange	Corded (PVC)	Tapered	100 pairs/ box	Box

- Soft & comfortable Polyurethane Foam ear plug which are easy to insert correctly due to the tapered shape and moderate slow expansion rate
- The smooth surface on the ear plugs further enhances the wearing comfort



SAFETYWARE EasyFit™ Disposable Ear Plugs

Item Code	Design	Material	Protection Level	Color	Type	Shape	Packing	Unit
HP103R	Dispenser	PU	NRR = 32dB, SNR = 35dB	Yellow	Uncorded	Tapered	500 pairs/ dispenser	EA
HP103B	Refill Pack	PU	NRR = 32dB, SNR = 35dB	Yellow	Uncorded	Tapered	500 pairs/ bag	Bag

- Soft & comfortable Polyurethane Foam ear plug
- The bell shape delivers maximum in-ear comfort, its improved design allows easier insertion and reduces tendency to back out of ear
- Smooth, soil-resistant surface prevents dirt build-up
- HP103B can be used as refills for the HP103R dispenser to save time, space and eliminate packaging waste



SAFETYWARE DuraFit™ Reusable Corded Ear Plugs

Item Code	Material	Protection Level	Color	Type	Shape	Packing	Unit
HP201	TPR	NRR = 27dB, SNR = 30dB	Yellow	Corded (PVC)	Flange	100 pairs/ box	Pair
HP202	TPR	NRR = 27dB, SNR = 30dB	Yellow	Corded (PVC), with Casing	Flange	100 pairs/ box	Pair

- Made with soft and thin pliable material with four flange design
- Fit the ear canal perfectly and provides perfect seal against harmful noise
- Available in individual polybag packing (HP201) and with casing (HP202)





HP301

Triple Flange Design



SAFETYWARE Durafit Corded Ear Plugs with Casing (Metal Detectable)

Item Code	Material	Protection Level	Color	Type	Shape	Packing	Unit
HP301	TPR	NRR = 25dB, SNR = 28dB	Orange	Corded (PVC), with Casing	Flange	100 pairs/ box	Pair

- Made with soft and thin pliable material with triple flange design
- Fit the ear canal perfectly and provides triple seal against harmful noise
- Comes with metal detectable feature
- Helps prevent contamination of products in case an earplug accidentally gets into production



EP411

EP412



SAFETYWARE Quattro Reusable Fabric Ear Plugs

Item Code	Material	Protection Level	Color	Type	Shape	Packing	Unit
EP411	TPR	NRR = 27dB	Blue	Corded (Nylon)	Flange	100 pairs/ box	Pair
EP412	TPR	NRR = 27dB	Blue	Corded (Nylon), with Casing	Flange	50 pairs/ box	Pair

- Universal size reusable ear plug designed to be used over and over again with maintained comfort and effectiveness
- Consists of 4 flange design that allows the ear plug to fit almost all ear canals
- Sturdy and stiff handle allows an easy grip for insertion and removal
- Made of an Ultra-soft Polymer that provides a comfortable and effective seal, and resistant to ear wax and body oils and out cast PVC ear plugs by many months
- Non-allergenic and non-irritating to the sensitive skin in the ear canal



EP16

EP18 Replacement Caps



PORTWEST Banded Ear Plug & Replacement Pods

Item Code	Material	Protection Level	Color	Type	Packing	Unit
EP16	POM, PU	SNR = 26dB	Grey, Yellow	Banded Ear Plug	20 EA/ box	Box
EP18	PU	SNR = 26dB	Yellow	Replacement Pods	50 pairs/ box	Box

- Banded ear plug, light, comfortable and soft disposable PU plugs
- Ideal for intermittent use
- Replacement pods available, easy to replace
- Soft foam replacement caps for use only with EP16





Adjustable Reinforced Headband

Soft Foam-filled Cushion



SAFETYWARE EcoMuff™ Ear Muff

Item Code	Protection Level	Color	Packing	Unit
HP401	SNR : 27.5dB	Yellow, Black	1 unit/ box	EA

- Lightweight
- Comes with soft foam-filled cushion and economical
- Offers a good seal for protection against harmful noise
- Comes with adjustable reinforced headband and can be worn in three positions



Smart Fold Out Feature



ELVEX ValueMuff™ SuperSeal Ear Muff

Item Code	Protection Level	Color	Packing	Unit
HB25	NRR : 25dB, SNR : 28dB	Blue, Black	1 unit/ box	EA

- Comfortable, yet tough unbreakable multi-position headband
- Exclusive ELVEX® "smart fold-out" design, muffs fold-out and rest comfortably around neck when not in use
- Self-aligning suspension on headband for quick fitting and adjustment
- Soft, pliable SuperSeal™ ear cushions are long lasting and resist body oil and sweat
- Multi-position use with or without optional support strap for compatibility when worn with other hats



Smart Fold Out Feature



ELVEX MaxiMuff™ Ear Muff

Item Code	Protection Level	Color	Packing	Unit
HB35	NRR : 28dB, SNR : 30dB	Red, Black	1 unit/ box	EA

- Comfortable, yet tough unbreakable multi-position headband
- Exclusive ELVEX® "smart fold-out" design, muffs fold-out and rest comfortably around neck when not in use
- Self-aligning suspension on headband for quick fitting and adjustment
- Soft, pliable SuperSeal™ ear cushions are long lasting and resist body oil and sweat
- Multi-position use with or without optional support strap for compatibility when worn with other hats





HB550 - Foldable



HB650



Fork-type Headband



Soft Padded Head Cushion



Extra Wide Ear Cushions



ELVEX UltraSonic Ear Muff

Item Code	Protection Level	Color	Packing	Unit
HB550	NRR: 27dB	Black	1 unit/ box	EA
HB650	NRR: 29dB , SNR: 34dB	Black	1 unit/ box	EA

- Fork-type headband provides low and consistent pressure on the wearer's head without sacrificing comfort
- Low force stainless steel suspension, tolerates extreme temperatures
- Extra wide ear cushions and a soft padded head cushion provide the highest level of all day comfort
- Superb full spectrum attenuation and superb low frequency attenuation



Fit Under Design Muff



Fit Up / Out Feature



Fits to most brand Safety Helmet



ELVEX Large Volume Cap Mount Ear Muff

Item Code	Protection Level	Color	Packing	Unit
HM2093	NRR : 25dB	Black, Grey	1 unit/ box	EA

- Medium profile cap mounted ear muff, with unique cut-out design to nest and fit under rim of caps
- Soft, pliable SuperSeal™ ear cushions are long lasting and resisting body oil and sweat
- There are 2 Rest positions: Flip Out muffs for short term break or Flip Up on top of safety cap
- Dielectric construction and lightweight
- Hard hat slot opening is 29 mm



ELVEX SuperSonic Cap Mount Ear Muff

Item Code	Protection Level	Color	Packing	Unit
HM8093	NRR : 28dB	Black, Grey	1 unit/ box	EA

- SuperSonic™ Larger profile cap mounted ear muff, with unique cut-out design to nest and fit under rim of caps
- Soft, pliable SuperSeal™ ear cushions are long lasting and resisting body oil and sweat
- There are 2 Rest positions: Flip Out muffs for short term break or Flip Up on top of safety cap
- Dielectric construction and lightweight
- Hard hat slot opening is 29 mm



PORTWEST Electronic Ear Muff

Item Code	Protection Level	Color	Packing	Unit
PW45	SNR: 27dB	Yellow	1 unit/ box	EA

- Fully-functioning electronic protector that automatically compresses harmful impulses and continuous noises to a safe hearing range below 85 dB while still allowing normal sounds to be heard without clipping or cutting
- Enhances low level sounds to improve user's hearing and communication
- Built-in volume controls
- Easy access battery compartments hold 2 x AA batteries each for long lasting use





ABOUT US

When it comes to occupational safety & health, rest assured that you can count on Safetyware Group – an award winning integrated safety & health solutions provider with over 30 years of experience that provide one-stop OSH products & services. We manufacture safety shoes, safety apparels, rubber gloves, and signage & labels in our manufacturing facilities in Penang. With headquarters and 2 manufacturing plants in Penang, supported by 4 other regional offices in Kuala Lumpur, Melaka, Johor & Singapore, Safetyware is uniquely placed to deliver the superb customers' experience that our customers have come to expect. We have also established collaborations with other renowned Personal Protective Equipment (PPE) manufacturers in Malaysia, USA, Taiwan, China, and India, to manufacture other range of PPE including safety helmet, safety glasses and goggles, ear muffs and ear plugs, particulate respirators and masks, fall protection products, sorbents and spill containment products, safety cabinets, traffic safety products, floor safety products, lockout & tagout (LOTO) products, amongst many others.

Apart from PPE manufacturing, we also partner with international PPE brands such as Sundstrom (Sweden), Ultitec (Taiwan), Elvex (USA), Honeywell (USA), GMI (UK), Delta Plus (France), Portwest (Ireland), and Harvik (Malaysia), to distribute their products in Malaysia and the region. Besides safety products, we provide EHS consultancy and safety training. Our Safetyware Academy offers both public and in-house training programmes catering a diverse range of industries. Safetyware is preferred and entrusted by more than 3,000 companies to be their OSH solution provider, because we do not just sell products or services, we offer complete OSH solution.

WHY SAFETYWARE



**YOUR ONE - STOP
SAFETY SOLUTION**



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**INNOVATIVE DESIGN
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