HEARING PROTECTION

Noise induced hearing loss is a permanent hearing impairment resulting from prolonged exposure to high levels of noise. It is important to practice hearing conservation by using hearing protection to prevent noise induced hearing loss. Hearing protection includes earplugs and earmuffs that are designed to reduce the intensity or loudness of sound.

Earmuffs

Simply a traditional method of "hearing" protection. Today's range of earmuffs cope with a very wide spectrum of industrial hazards. It is important to study the attenuation characteristics of each model as they do vary in performance across the range of sound frequency.

Helmet Mounted Earmuffs

These all-in-one head & hearing protections are popular among safety officers. Today's models are styled to be sensibly "parked" when not in use.

Earplugs

Can be worn conveniently with all other PPE equipments. Easy to use and attenuation provided often exceed that of an earmuff. Both disposal & reusable earplug provide excellent protection with long term comfort.

SNR (Single Number Rating)

SNR is a single-number rating which is calculated in accordance with ISO 4846 2.2 (1992). "Estimation of effective A-weighted Sound Pressure Levels when Hearing Protectors are worn". Normally used by European Standard.

NRR (Noise Reduction Rating)

NRR is required by US law to be shown on the label of each hearing protection sold in United Stated.

Difference between SNR and NRR

The main difference is the SNR being calculated using a single standard deviation while NRR formula deducts two standard deviation.

Standards

Earmuffs and earplugs are tested to the relevant European Standard, American Standard, & JKKP.

- EN352-1 Earmuffs
- EN352-2 Earplugs
- EN352-3 Helmet Mounted Earmuff
- ANSI S3.19 Measurement of Real-Ear Hearing Protector Attenuation and Physical Attenuation of Earmuffs.
- Most hearing specialists agree: You can damage your hearing if you're continually exposed to noise greater than 85 decibels over eight hours. As noise levels rise above 85 decibels, the safe exposure time for unprotected ears falls dramatically. For example, 110 decibels noise can impair hearing after just 15 minutes of exposure.

Disposable Foam Earplugs

CE EN 352-2 **SNR**: 37dB

Disposable Foam Earplugs

Model:
FEP-03
FEP-03C

- These soft, smooth, tapered foam earplugs are moulded for maximum comfort and provide excellent noise
- reduction.
- Bright orange colour for better visibility.
- Low pressure foam provides all day comfort and secure fit in a wide range of ear canal sizes.
- Dermatological safe & non-irritating.
- SNR: 37dB.
  Comply with EN352-2.

Packaging: 200prs/box 12boxes/carton

FEP-03

FEP-03C

CE EN 352-2

Earplug Dispenser Station

Model:
FEP-03-MD02

- Workplace dispenser holds 500 pairs of disposable earplugs.
- Dispenses one pair at a time.
- The bright colour provides quick & easy compliance checks.
- Shaped to fit even very small ear canals.
- Comes included with disposable foam earplugs.
- Comply with EN352-2.

Packaging: 1set/box

FEP-03-MD02

Attenuation Data FEP-03 & FEP-03C

Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR
Mean Attenuation, (Mf) in (dB)	33.3	37.0	38.6	37.8	37.5	48.3	45.4	
Standard Deviation, Sf	3.0	4.5	4.5	5.7	3.2	3.7	4.2	**37dB**
Assumed Protection (dB)	30.3	32.5	34.1	32.1	34.3	44.6	41.2	

EN 352-2 **NRR**: 29dB

3M Disposable Foam Earplugs

Model:
3M-1100
3M-1110

- Plugs are made of soft foam that expand to fit virtually any ear
- canals size.
- Comfortable to wear for extended periods.
- Each pair is individually packaged in a plastic bag.
- Available in uncorded or corded.
- NRR: 29dB.

3M-1100: 200prs/box 5boxes/carton
3M-1110: 100prs/box 5boxes/carton

3M-1100

3M-1110