

CONSTRUCTION NOISE

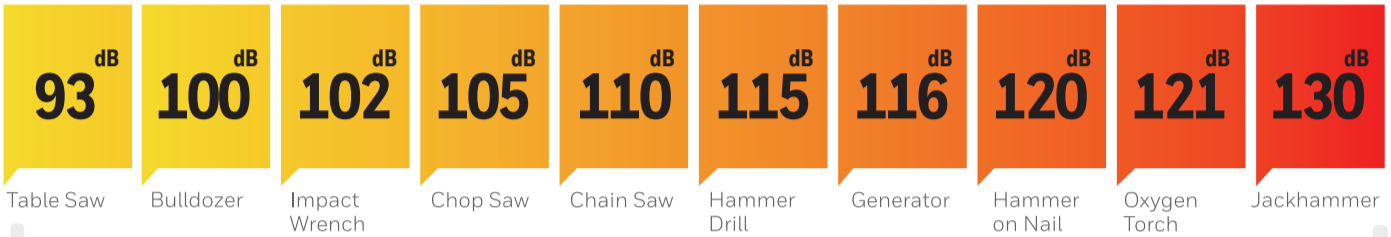
KNOW THE RISKS AND HOW TO PROTECT WORKERS



CONSTRUCTION WORKERS EXPERIENCE THE SECOND HIGHEST RATE OF OCCUPATIONAL EXPOSURE TO NOISE HAZARDS

- Construction sites are noisy no matter what precautions are taken
- The jobs conducted and tools used vary within a shift or project – so do the noise hazards
- Impact-noise exposures are plentiful
- It's challenging to train and fit a part-time or transient workforce with hearing protection
- Site managers are often responsible for mandating hearing protection

COMMON CONSTRUCTION NOISE HAZARDS



CFR 1926.101: OSHA's regulation for hearing protection in construction. It states that wherever noise levels or duration of exposures exceed 85 dBA in an 8-hour time-weighted average, ear-protective devices shall be provided and used. Ear-protective devices inserted in the ear shall be fitted or determined individually by competent persons.

Yet, more than 31% of noise-exposed construction workers report not wearing protective devices

CAUSES	EFFECTS
Continuous exposure to sounds \geq 85 decibels	Leads to temporary or permanent hearing loss
	Tinnitus (ringing in the ears)
1-time impulse or impact noise exposure	Limits ability to understand speech
	Impairs ability to communicate
	Reduces productivity
	Leads to social isolation and withdrawal
	Increases risk of hypertension and high cholesterol

EXPOSURE RATES AND EFFECTS:



DURATION OF EXPOSURE AND PROXIMITY TO THE SOURCE ARE KEY FACTORS THAT IMPACT THE EFFECT OF NOISE ON HEARING

Noise Induced Hearing Loss is fully preventable, here is how:

TIPS FOR PROTECTING CONSTRUCTION WORKERS' HEARING:

- Be mindful** of communication needs among workers and provide them with comfortable, convenient and compatible hearing protection solutions
- Educate teams** on site-specific noise hazards, invite safety specialists to speak on hearing protection, and encourage compliance through positive incentives
- Hold free training** classes on hearing protection and how to achieve a reliable, comfortable fit and encourage peer-to-peer support for using protective devices

VARIOUS TYPES OF PROTECTION DESIGNED FOR SPECIFIC CONDITIONS:

- Disposable Foam Earplugs – for comfort and greater protection
- Push-in foam earplugs – for ease of insertion and comfort
- Reusable earplugs – for ease of insertion and reuse
- Banded earplugs – for lower-level intermittent noise
- Passive Earmuffs
- Electronic earmuffs – for communication or impact noise

Optional: Custom molded earplugs – for difficult-to-fit workers