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July 2005

*Created for a new draft ANSI standard on hearing conservation in construction*

**Probable Noise Levels of Common Construction Tools**

Noise levels represent exposures at operator's ear, except where otherwise indicated

Tool	Noise level will probably exceed...	Reference
Air compressor	90	CDC (2005)
Air gun	108	CDC (2005)
Air hammer	110	Bragdon (1971)
Air track drill	110	Eaton (2000)
Asphalt grinder	111	Greenspan et al (1995)
Backhoe	85	CDC (2005)
Belt sander	90	CDC (2005), NIOSH (2005), NZ DOSH (2002)
Bored piledriver using auger (at 15 m)	81	Hong Kong EPD (1989)
Brick saw	94	Burgess and Lai (1999)
Bulldozer	87	CDC (2005), Dobie (1993), Alfredson and May (1978)
Chipper, pneumatic	100	Hassall (1979), Olishifski (1975)
Chipping gun	96	Kerr et al (2002), CDC (2005), UW (2004)
Chopsaw	92	Kerr et al (2002), UW (2004)
Circular saw	88	UW (2004), CDC (2005), NZ DOSH (2002), NIOSH (2005), Kerr et al (2002)
Compactor	90	Utley and Miller (1985)
Compressed air gun	104	Kerr et al (2002)
Compressor (silenced) (at 7m)	70	Hong Kong EPD (1989)
Compressor (standard) (at 7m)	77	Hong Kong EPD (1989)
Concrete mixer truck at 50 ft	75	Alfredson and May (1978)
Concrete pump at 50 ft	81	Alfredson and May (1978)
Concrete saw	98	CDC (2005)
Concrete vibrator	90	CDC (2005)
Cutoff saw	98	NZ DOSH (2002), Greenspan et al (1995)
Diesel hammer piledriver on concrete pile (at 15m)	95	Hong Kong EPD (1989)
Diesel hammer piledriver on steel pile (at 15m)	99	Hong Kong EPD (1989)
Double scraper	92	Dobie (1993)
Drill	87	NZ DOSH (2002), CDC (2005)
Drop hammer piledriver on concrete pile (at 15m)	83	Hong Kong EPD (1989)
Drop hammer piledriver on steel pile (at 15m)	93	Hong Kong EPD (1989)
Dump truck	78	Utley and Miller (1985)
Electric grinder	98	NZ DOSH (2002)
Excavator	80	Greenspan et al (1995), Utley

Tool	Noise level will probably exceed...	Reference
Forklift	93	and Miller (1985)
Framing saw	82	Utley and Miller (1985)
Front end loader	90	NIOSH (2005)
Generator at 50 ft	72	Burgess and Lai (1999), Utley and Miller (1985)
Grader/scrapper	107	Alfredson and May (1978)
Grinder	87	Greenspan et al (1995)
Hammer	85	UW (2004), NIOSH (2005)
Hammer	89	CDC (2005), NZ DOSH (2002)
Jackhammer	102	UW (2004)
Jigsaw	91	CDC (2005), Ren (1999), Alfredson and May (1978)
Manlift	84	NZ DOSH (2002), Kerr et al (2002)
Mechanical tamper	90	CDC (2005)
Mechanical tamper at 50 ft	90	CDC (2005), Greenspan et al (1995)
Mobile crane	78	Alfredson and May (1978)
Motorized wheel barrow	86	Utley and Miller (1985)
Nailgun	97	CDC (2005)
Paver at 50 ft	86	NZ DOSH (2002)
Piledriver at 50 ft	95	Alfredson and May (1978)
Portaband	83	Alfredson and May (1978)
Portable welder	84	Ren (1999)
Powder actuated tool	89	CDC (2005)
Reciprocating saw	86	NZ DOSH (2002), UW (2004), Kerr et al (2002)
Road grader	95	NIOSH (2005)
Rotohammer	84	Dobie (1993)
Router	90	NZ DOSH (2002), CDC (2005), UW (2004), Kerr et al (2002)
Scraper	117	Dobie (1993)
Scraper at 50 ft	80	Alfredson and May (1978)
Screw gun	86	UW (2004), Kerr et al (2002)
Steam roller	85	Utley and Miller (1985)
Steam roller	84	Kerr et al (2002)
Stud welder	101	CDC (2005)
Vibratory piledriver on steel pile (at 15m)	85	Hong Kong EPD (1989)
Welding equipment	92	UW (2004)

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