

Construction Calculations

Note: Three loudest Piece of Equipment

Equipment	Reference (dBA) 50 ft Lmax	Usage Factor ¹	Distance to Receptor (ft)	Ground Effects	Noise Level (dBA)	
					Lmax	Leq
Concrete Saw	90	20	50	0.5	90	83
Crane	85	16	50	0.5	85	77
Grader	85	40	50	0.5	85	81
					92	86
Combined at Receptor 75 feet					89	82

Sources: *Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances (USEPA*

¹- Percentage of time that a piece of equipment is operating at full power.

dBA – A-weighted Decibels

Lmax- Maximum Level

Leq- Equivalent Level