

VENDOR GUIDANCE DOCUMENT FOR SMALLER CONSTRUCTION JOBS

The following is intended to provide guidance to construction contractors with respect to finding and selecting suitable noise control products. These products and vendors may be helpful to contractors for achieving compliance with the New York City Noise Regulations. These items are provided only as suggestions for contractors to consider and should not be construed as an official endorsement of any product and/or vendor by the City of New York. Contractors are free to choose other products/vendors that meet the requirements of such Code. This sheet will be updated from time to time as new noise control technologies gain acceptance.

Build sound barriers around noisy tool tasks

NOISE BARRIERS

- Carsonite Sound Barrier www.carsonite.com
- Sound Fighter LSE Sound Barrier www.soundfighter.com
- Kinetics Noise Block www.kineticsnoise.com
- one inch plywood is rated at 30 STC.

Place Noise curtains on the walls of rooms where noisy operations are being performed.

Consider these options for longer-term work:

NOISE CURTAINS

- Sound Seal BBC-13-2 www.soundseal.com
- Illbruck Acoustic SONEX Curtain www.illbruck-sonex.com
- McGill AirSilence Fibersorb Curtains www.mcgillairsilence.com

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| • Acoustiblok | Acoustiblok, Acoustiblok-Wallcover* | www.acoustiblok.com |
| • AcoustiGuard | GenieClip, Mass Loaded Vinyl, Barrier Material, Iso-sill | www.acoustiguard.com |
| • Kinetics | Model ICC, KSCH, IsoGrid, IsoMax, PSB, KWSB, Wallmat, IPRB | www.kineticsnoise.com |

Floor Sound Isolation:

- Acoustiblok Acoustiblok, Acoustiwool, www.acoustiblok.com
Acoustipad
- AcoustiGuard OT 4005 & 4010, Duraoustic, www.acoustiguard.com
Barrier Material, Iso Sep 25HD,
- Kinetics Model RIM, SR Floorboard, www.kineticsnoise.com
Soundmatt, FC, Isolayment BR

TOOLBOX TESTED BY NIOSH

Tools

The source of the following sound level data is the National Institute for Occupational Safety and Health (NIOSH) Power Tools Database. Updated information can be found on the following website: wwwn.cdc.gov/niosh-sound-vibration/ It is important to keep in mind that the sound power level (SWLA) is generally similar to the sound level at the operator's ear. Also, the loaded sound power level will generally be more relevant than the unloaded one, since most tools tend to spend more operational time at their loaded state than the unloaded one. Finally, if a particular operator is sensitive to hand vibration, a product with a lower vibration level can be selected to promote increased comfort during use.

Drills

Builder staff should select drills with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: chuck size	Rated elec. power (Watts)	Rated speed (RPM)
Milwaukee	0302-20	91	90	2.7	4.5	1/2 inch	960	850
Milwaukee	0299-20	91	91	3.0	4.3	1/2 inch	960	850
Milwaukee	0300-20	91	90	3.5	5.0	1/2 inch	960	850
Makita	6303H	91	89	4.9	5.2	1/2 inch	780	850
Hitachi	D10VH	91	90	3.8	5.6	3/8 inch	680	2500
Makita	6408	87	91	5.8	13.3	3/8 inch	588	2500

Circular Saws

Builder staff should select saws with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: saw blade diameter	Rated elec. power (Watts)	Rated speed (RPM)
Porter Cable	345	103	95	2.2	2.4	6 inch	1080	6000
Milwaukee	6370-20	102	104	8.3	6.1	8 inch metal cutting	1560	3700
Porter Cable	314	104	95	3.4	4.1	4 1/4 inch	540	4500
Makita	5277NB	105	95	2.9	3.3	7 1/4 inch	1800	4300
Makita	5057KB	105	101	3.6	3.0	7 1/4 inch	1560	5800
Hitachi	C7SB2	106	100	4.2	3.2	7 1/4 inch	1800	5800
Porter Cable	743	107	98	2.5	2.5	7 1/4 inch	1800	5800
Bosch	CS20	107	99	2.7	3.1	7 1/4 inch	1800	5600

Portable Generators

In general, Builder staff should select models with the lowest levels (dBA) that meet their needs. See also the generator recommendations in the “Construction Equipment” section.

Manufacturer brand name	Model number	Noise level at 9 ft (3 m) and rated load (dBA)	Rated load at 120V	Max load at 120V	Run time per tankful at rated load	Dry weight
Honda	EU3000isAN	58	2800W (23.3A)	3000W (25A)	7.2 hrs.	134 lbs.
Honda	EU1000iAN	59	900W (7.5A)	1000W (8.3A)	3.8 hrs.	29 lbs.
Honda	EU2000 series	59	1600W (13.3A)	2000W (16.7A)	4 hrs.	46 lbs.
Honda	EU6500isA	60	5500W (45.8A)	6500W (54.1A)	4.7 hrs.	253 lbs.

Orbital sanders

Builder staff should select orbital sanders with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: saw blade diameter	Rated elec. power (Watts)	Rated speed (RPM)
Black and Decker	MS500K	74	74	-	-	3 5/8 x 5 1/4 inch triangle	60	11000
Black and Decker	MS550GB	74	76	-	-	3 5/8 x 5 1/4 inch triangle	60	11000

Power Screw Drivers

Builder staff should select power screw drivers with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: saw blade diameter	Rated elec. power (Watts)	Rated speed (RPM)
Hitachi	W6V3	85	92	6.7	11.1	1/4 inch hex drive	768	4000
DeWalt	DW272	88	93	6.1	11.0	1/4 inch hex drive	756	4000

Reciprocating Saws

Builder staff should select reciprocating saws with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: saw blade diameter	Rated elec. power (Watts)	Rated speed (RPM)
DeWalt	DW309K	102	98	15.9	30.6	1 1/4 inch	1416	2900
Milwaukee	6519-22	104	99	23.7	25.6	1 1/8 inch	1200	2800
Milwaukee	6509-22	104	99	22.0	32.6	3/4 inch	1200	2800
Milwaukee	6524-21	104	96	27.2	32.7	3/4 inch	900	3000

Miter Saws

Builder staff should select miter saws with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: saw blade diameter	Rated elec. power (Watts)	Rated speed (RPM)
Delta	MS250	103	100	-	-	10 inch	1800	5200
Hitachi	C10FCE	103	100	-	-	10 inch	1520	5000
DeWalt	DW706	104	100	-	-	12 inch	1800	4000

Grinders

Builder staff should select grinders with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: saw blade diameter	Rated elec. power (Watts)	Rated speed (RPM)
Ryobi	AG401	95	93	2.5	7.4	4 inch	528	11000
Ryobi	AG451	97	91	5.2	11.9	4 1/2 inch	660	11000
Hitachi	G12SR2	97	94	6.7	14.4	4 1/2 inch	580	11000
Ridgid	R1000	98	96	5.6	21.7	4 1/2 inch	960	10000
Milwaukee	6148-6	99	98	6.5	10.5	4 1/2 inch	1020	10000
DeWalt	DW402	98	99	10.8	22.8	4 1/2 inch	900	10000
Bosch	1700A	99	96	4.5	11.6	4 1/2 inch	840	11000

Jig Saws

Builder staff should select jig saws with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: saw blade diameter	Rated elec. power (Watts)	Rated speed (RPM)
Skil	4380	97	92	11.5	17.7	5/8 inch	444	3250
Milwaukee	6266-22	98	98	4.9	8.0	1 inch	744	3000
Black and Decker	JS600	99	95	17.5	23.2	3/4 inch	540	3200

Hammer Drills

Because hammer drills are significantly louder than conventional drills, they should not be used in outdoor settings or when conventional drills will work. If needed, however, **Builder** staff should select hammer drills with the lowest loaded A-weighted sound power level (SWLA) that meet their needs.

Manufacturer brand name	Model number	Loaded SWLA (dBA)	Unloaded SWLA (dBA)	Vibration: right hand (m/s ²)	Vibration: left hand (m/s ²)	Technical specification: saw blade diameter	Rated elec. power (Watts)	Rated speed (RPM)
Hitachi	DH24PE	101	95	41.2	27.2	7/8 inch	620	1350
DeWalt	D25103	102	89	-	-	1 inch	900	1100
Bosch	11224VSR	102	93	-	-	7/8 inch	828	1100
DeWalt	DW505	103	91	-	-	1/2 inch	936	2700