



Table 1 – Equipment Names and Best Practice Tips – Update September 2018

- Includes equipment terms commonly used by different trades and in different geographic areas.
- ‘Best practice’ tips are intended to help employers and their employees operate the equipment-control options effectively and are based on 1) [OSHA’s Small Entity Compliance Guide for the Respirable Crystalline Silica Standard for Construction](#); 2) [OSHA’s Frequently Asked Questions \("FAQs"\) for the Construction Industry](#); 3) [silica standard’s Table 1](#); 4) manufacturer specifications; and 5) craft worker/contractor input based on experience in the field.

Equipment/ Control	Photo & Video	Engineering, Work Practice Control Methods & Required Respiratory Protection	Best Practice Tips
<p>(i) Stationary masonry saws</p> <p>Other Names:</p> <p>Table saw</p> <p>Brick/block saw</p> <p>Tile saw⁴</p>	 <p><i>Photo courtesy of the International Masonry Institute & OSHA</i></p>  <p><i>Video courtesy of OSHA</i> https://www.youtube.com/watch?v=WtoBc34EbBo English & Spanish subtitle options included.</p>	<p>CONTROL: water</p> <ul style="list-style-type: none"> • Use saw equipped with integrated water delivery system that continuously feeds water to the blade. • Operate and maintain tool in accordance with manufacturer’s instructions to minimize dust emissions. <p>Required Respiratory Protection:</p> <ul style="list-style-type: none"> • ≤4 hours/shift: NONE • >4 hours/shift: NONE 	<p>OSHA¹ requires the employer to ensure that:</p> <ul style="list-style-type: none"> • The saw is equipped with an integrated water delivery system (commercially developed specifically for the type of tool in use) • An adequate supply of water for dust suppression is used • The spray nozzle is working properly to apply water at the point of dust generation • The spray nozzle is not clogged or damaged • All hoses and connections are intact • Water is applied at least at the flow rate specified by the manufacturer • Additional exhaust is provided as needed to minimize the accumulation of visible airborne dust when operating indoors or in an enclosed space (area where airborne dust can build up) • Additional means of exhaust could include: portable fans (e.g. box fans, floor fans, axial fans, oscillating fans), portable ventilation systems, or other systems that increase air movement and assist in the removal and dispersion of airborne dust⁴ • “Indoors or in enclosed areas” refer to any areas where, without the assistance of forced ventilation, the dispersal of airborne dust can be impeded and concentrations can build up. Parking garages, pits, trenches, empty swimming pools, open-top structures with 3 walls, or other structures with limited air movement could be considered enclosed⁴ <p>Tips for this tool continued on next page.</p>

			<p>Other tips:</p> <ul style="list-style-type: none"> • Visually inspect the water attachment to ensure it is properly connected to the water source and the tool • Inspect the blade for cracks, loose segments, or other damage • Check the hose or water tubes and the water flow rate regularly to ensure it is sufficient to control the dust generated so that no visible dust² is emitted from the process once the blade has entered the substrate (material) being cut • If recycling water, check regularly to make sure the water is circulating and change water to avoid silt build-up in water • Prevent wet slurry from accumulating and drying
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¹Best practice requirements from [OSHA's Small Entity Compliance Guide for the Respirable Crystalline Silica Standard for Construction](#)

²Although many of the entries on Table 1 require employers to "[o]perate and maintain" tools "in accordance with manufacturer's instructions to minimize dust emissions," 29 C.F.R. § 1926.1153(c)(1)(i)-(vii), (x)-(xiii), (xvi), or to "[o]perate and maintain machine[s] to minimize dust emissions," 29 C.F.R. § 1926.1153(c)(1)(xiv)-(xv), the standard does not separately require employers to minimize dust emissions. An employer generating a limited amount of dust when engaging in a task listed on Table 1 would not be in violation of the standard if it is fully and properly implementing the engineering controls, work practices, and respiratory protection specified on the Table (including operating and maintaining controls so as to minimize emissions). A small amount of dust can be expected even with new equipment that is operating as intended by the manufacturer. However, a noticeable increase in dust emissions may indicate that the dust control system is not operating properly. See OSHA's Q&A's #15 at https://www.osha.gov/dsg/topics/silicacrystalline/construction_info_silica.html.

³Respirator use is conditional on time spent using equipment (less than or equal to 4 hours/shift or greater than 4 hours/shift) and if task is done outdoors, indoors or in an enclosed area. See Table 1 in the standard for specific requirements including the assigned protection factor (respiratory protection). The employer does not have the track the exact amount of time that employees are performing a job throughout a shift to be in compliance with Table 1. Before the task is performed, the employer must make a good-faith judgement about whether the task will take more than 4 hours based on previous experience and other available information. At the beginning of the task, the employer must provide the employee the respiratory protection required for the anticipated time the employee will be engaged in the task. However, if unforeseen difficulties or other circumstances are expected to extend the task duration beyond 4 hours, the employer must provide the appropriate respiratory protection as soon as it becomes evident. (In that situation, the 4-hour mark is still measured from the beginning of the task, not from the time the expected duration of the task changes.) See OSHA's Q&A's #14 at https://www.osha.gov/dsg/topics/silicacrystalline/construction_info_silica.html.

⁴In August 2018, OSHA released new Q&A's. These additions are based on information included in the responses. Q&A #11 addresses manufacturer air flow recommendations; #12 addresses use of additional exhaust; #13 addresses indoor and enclosed spaces; #14 addresses respirator requirements based on duration of task; #15 addresses minimizing dust emissions; #17 addresses demolition hammers with bushing tools; #18 addresses tile saws. For more information, see https://www.osha.gov/dsg/topics/silicacrystalline/construction_info_silica.html.

⁵Employees engaged in the Table 1 task means the equipment operator; helpers, laborers and other employees who are assisting with the task; or any other employee responsible for completing the task. For example, an employee operating a walk-behind saw and another employee helping the operator guide the saw are both engaged in the task. An employee operating a jackhammer would be engaged in the task, but another employee directing traffic near the employee jackhammering would not be engaged in the task. [OSHA's Small Entity Compliance Guide for the Respirable Crystalline Silica Standard for Construction](#), page 5.