

Silica Exposure Control Matrix				
Equipment/Task	Engineering & Work Practice Control Methods	Available To Rent	Required Respiratory	
			≤ 4 Hrs/Shift	≥ 4 Hrs/Shift
If any tool is used Outdoors (O) and the proper Engineering/Work Practice control is used, respiratory protection will not be needed. However; if the same tool is used Indoors or in an Enclosed Area (IE) , respiratory protection will be needed until a negative exposure assessment has been performed for that task and tool.				
Partner Saw	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. – When used outdoors. – When used indoors or in an enclosed area.	Dust Shrouds for vacuum hookup. 260 CFM minimum vacuum recommended. Separate Models for flatwork or cutting brick, stone, etc.	None-O APF 10 - IE	APF 10-O APF 10 - IE
Jackhammer Handheld Chipping Gun Bush hammer	Use tool with water delivery system that supplies a continuous stream or spray of water at the point of impact. OR Use tool equipped with commercially available shroud and dust collection system. <i>DeWalt Hepa Vacuum (DWV012) with the Electric Tool Adaptor (DWH053K) or Pneumatic Tool Adaptor (DWH052k)</i> <i>Husqvarna Ermator S26 Hepa Vacuum with Enviroboot (EB-1 or EBCH-1)</i> <i>*EB-1 or EBCH-1 can be used with various makes and models of HEPA vacs.</i> Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.	McCann has available to rent larger sized Husqvarna Ermator vacuums if needed	APF 10-O APF 10 - IE	APF 10-O APF 10 - IE

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Houskeeping	<p>Dry sweeping is prohibited</p> <p>Apply water and/or dust suppressants (sweeping compound) as necessary to minimize dust emissions</p> <p>Use tool equipped with commercially available shroud and dust collection system.</p> <p><i>DeWalt Hepa Vacuum (DWV012) with cleaning tool attached to hose</i> <i>DeWalt Accessory Kit (DWV2759)</i></p>	<p>Uline stocks a sweeping compound that is not hazardous, is oil based and does not contain silica. These are available in packages of 50#, 100# and 200#.</p> <p>(S-6633 is 50# stock number)</p>	None	None
Material Handling (Dump	<p>For Outdoor Tasks: Equipment operator to close doors as necessary. Spotters, ground personnell to stay upwind or clear area. Barricade area of activity, alert others in area of exposure potential.</p> <p>Water down material to control dust.</p>		None	None

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Drills	<p>Use drill equipped with commercially available shroud or cowling with dust collection system.</p> <p><i>DeWalt HEPA Vac (DWV012) with the Telescoping attachment for small drills (D25301D)</i> <i>Large Drill up to 2" (DWH050K)</i> <i>Cordless Drill with HEPA Vac (DCH273 Drill and DWH303DH Vac)</i> <i>Hollow bits may also be used in conjunction with these attachments (DWA58058)</i></p> <p>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</p> <p>Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.</p> <p>Use a HEPA-filtered vacuum when cleaning holes.</p>		None	None
Walk Behind Saw	<p>Use saw equipped with integrated water delivery system that continuously feeds water to the blade.</p> <p>Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions.</p>	Husqvarna shroud to attach to one of the Ermator Vacuums or there is a specialized system specifically made for the Soff Cut Saw	None-O APF 10 - IE	None-O APF 10 - IE
Hammer/Impact Attachments (Heavy Equipment)	<p>Operate equipment from within an enclosed cab.</p> <p>When employees outside of the cab are engaged in the task, apply water and/or dust suppressants as necessary to minimize dust emissions.</p>	"Mist Cannons" available for large area dust suppression	None	None

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Grinders	Use grinder equipped with integrated water delivery system that continuously feeds water to the grinding surface. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. OR Use grinder equipped with commercially available shroud and dust collection system. <i>DeWalt HEPA Vac (DWV012) with 5-6" disc Tuckpointing and Cutting attachment (DWE46100) or 5" Surface grinding attachment (DWE46152). Both of these will match up to 12 different DeWalt Grinder Models</i> Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. Dust collector must provide 25 cubic feet per minute (cfm) or greater of airflow per inch of wheel diameter and have a filter with 99% or greater efficiency and a cyclonic pre-separator or filter-cleaning mechanism.		None	None-O APF 10 - IE
Mixers	Follow manufactures recommendations for product used. Use wet methods if possible (apply mist). OR Use mixer indoors with Adequate ventilation and Filtration to reduce visible Dust. Work Practice controls to be used to control or limit dust while pouring into mixer. Use combination of Engineering, work practice controls and Respiratory protection to reduce worker exposure to below		APF 10-O APF 10 - IE	APF 10-O APF 10 - IE

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Grader	Apply water and/or dust suppressants as necessary to minimize dust emissions. OR When the equipment operator is the only employee engaged in the task, operate equipment from within an enclosed cab.		None	None
Vibratory Plate	Apply water and/or dust suppressants as necessary to minimize dust emissions.		None	None
Soil Pick	Apply water and/or dust suppressants as necessary to minimize dust emissions.		None-O APF 10 - IE	APF 10-O APF 10 - IE
Drywall Sanders- Hand / Electric	Use tool equipped with commercially available shroud and dust collection system. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.	Hand and Electric sanders with shrouds with a vac hookup are available.	APF 10-O APF 10 - IE	APF 10-O APF 10 - IE
Walk Behind Milling Machines & Floor Grinders	Use tool equipped with commercially available shroud and dust collection system. Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions. Dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism.		None	None

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When implementing the control measures specified in the Silica Control Matrix, each Brieser employee shall:

1. For tasks performed indoors or in enclosed areas, provide a means of exhaust as needed to minimize the accumulation of visible airborne dust;
2. For tasks performed using wet methods, apply water at flow rates sufficient to minimize release of visible dust;
3. For measures implemented that include an enclosed cab or booth, ensure that the enclosed cab or booth:
 - (A) Is maintained as free as practicable from settled dust;
 - (B) Has door seals and closing mechanisms that work properly;
 - (C) Has gaskets and seals that are in good condition and working properly;
 - (D) Is under positive pressure maintained through continuous delivery of fresh air;
 - (E) Has intake air that is filtered through a filter that is 95% efficient in the 0.3-10.0 µm range (e.g., MERV-16 or better); and
 - (F) Has heating and cooling capabilities.
4. Where an employee performs more than one task on the Silica Control Matrix during the course of a shift, and the total duration of all tasks combined is more than four hours, the required respiratory protection for each task is the respiratory protection specified for more than four hours per shift. If the total duration of all tasks on the Silica Control Matrix combined is less than four hours, the required respiratory protection for each task is the respiratory protection specified for less than four hours per shift.