Respirable Crystalline Silica 29 CFR 1926.1153 Table 1

| Equipment / | Location of Use | Engineering and Work Practice Control Methods | Respiratory Protection Requirements | |
|--|--------------------|--|-------------------------------------|--|
| Task | | | ≤ 4 hours / shift > 4 hours / shift | |
| (i) Stationary masonry saws | | Manual | | |
| | Electric | | | |
| | Gasoline | Plus - Ventilate - CO Monitor - Prevent Fire (Gasoline) | | |
| (ii) Handheld power saws (any blade diameter) | | or B Manual Manual | | |
| | Électric | Plus | | |
| | Gasoline | Plus - Ventilate - CO Monitor - Prevent Fire (Gasoline) | APF 10 | |
| (iii) Handheld power saws for cutting fiber-cement board | A Co | 99% Manual Manual | | |
| ≤8" | | • Not listed as table 1 activity • Respirator with air sampling | JHA Required | |
| (iv) walk-behind saws | | Manual | | |
| J | Electric | Plus | | |
| | Gasoline | Plus - Ventilate - CO Monitor - Prevent Fire (Gasoline) | APF 10 | |
| (vi) rig-mounted core saws or drills | | Manual Manual | | |
| | Électric | So be at the second of the sec | | |
| | Gasoline | Plus - Ventilate - CO Monitor - Prevent Fire (Gasoline) | HEPA DOS | |









feeds water to equipment **B**lade |

cutting Surface | point if Impact* (*
Integrated not required)





with manual



(DCS) with 99% or greater

efficient filter, plus (+) filter

cleaning mechanism (++) filter

cleaning mechanism or cyclonic

pre-seperator





filter at least 99.97% efficient

monodispersed

particles of 0.3



Minimize

accumulation

of visible

airborne dust

by providing

ventilation





Equipment /

Task

Location of

Use



| (vii) handheld and stand-mounted drills (including impact and rotary hammer drills) | | Plus HEPA To clean drill holes | | |
|---|----------|--|-----------------|----------|
| (x) Jackhammers and heldheld powered chipping tools | | Manual Ma | | Ω |
| | | Plus | | APF 10 |
| | | 99% | | |
| | 1 | Plus | | APF 10 |
| (xi) Handheld grinders for mortar removal | | 99% DCS CFM = 25 x 0 | APF 10 | |
| | i i | - Not listed as table 1 activity - Respirator with air sampling | JHA Required | |
| (xii) Handheld grinders for uses other than mortar removal | | Manual Ma | | |
| | 1 | - Not listed as table 1 activity - Respirator with air sampling | JHA Required | |
| | | 99% DCS CFM = 25 x 0 | | |
| | À | Plus | | APF 10 |
| (xiii) Walk-behind milling machines and floor grinders | | Manual Ma | | |
| 13 | (| 99% OR Manual | | |
| | 1 | Plus Use to remove loose dust in-between passes | | |
| | | sk identified on Table 1, the employer shall fully and pro | | |

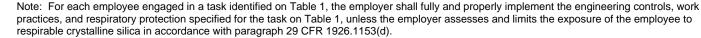
Engineering and Work Practice Control

Methods

Respiratory Protection Requirements

> 4 hours / shift

≤ 4 hours / shift



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| Equipment / | Location of Use | Engineering and Work Practice Control | Respiratory Protection Requirements | |
|---|--------------------|--|-------------------------------------|-------------------|
| Task | | Methods | ≤ 4 hours / shift | > 4 hours / shift |
| (v) Drivable saw | | Manual Manual | | |
| | † | - CO monitoring - Not listed as table 1 activity - Respirator with air sampling | JHA Required | |
| (viii) Dowel drilling rigs fro concrete | | 99% HEPA | APE 10 | |
| | i i | - CO monitoring - Not listed as table 1 activity - Respirator with air sampling | JH, Requ | |
| (ix) Vehicle-mounted drilling rigs for rock and concrete | | - Dust collection system - Capture hood or shroud around drill - Low-flow water spray at discharge OR | | |
| | | - Water for dust suppression at drill bit | | |
| | | If worker in vicinity Not listed as table 1 activity Respirator with air sampling | JH Req | |
| (xiv) small drivable milling machines (less than half-lane) | | Operate Dust Emissions | | |
| | † | - CO monitoring - Not listed as table 1 activity - Respirator with air sampling | JHA Required | |







Indoors or enclosed area



Provide an integrated water delivery system that continuously feeds water to equipment Blade | cutting Surface | point if Impact* (* Integrated not required) | Designed



Exhaust ventilation on drum enclosure

Water spray and mist at crusher and transfer points



Suppressent

Operate and maintain equipment in accordance with manual to minimize dust



Enclosed cab or booth, maintained free of settled dust (as mechanisms good, gaskets and seals good, positive pressure by fresh air, HVAC with Merv 16 filter



Equipped with commercially available dust collection system (DCS) with 99% or greater efficient filter, plus (+) filter





cleaning mechanism



practicable), cleaned by portable dust collect system, door seals and





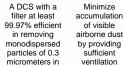
Operated by remote control upwind of



Cutting depth and

cutting Asphalt | or

ANY material









Engaged worker



| Equipment / Task | Location of Use | Engineering and Work Practice Control Methods | Respiratory Protection Requirements | |
|--|---------------------------------------|--|-------------------------------------|-------------------|
| | | | ≤ 4 hours / shift | > 4 hours / shift |
| (xv) Large drivable milling machines (half-lane and larger) | MA A | Depth - no limit Depth ≤ 4" OR Depth ≤ 4" Operate Dust Emissions Operate Operate Dust Dust Dust Dust Dust | | |
| (xvi) Crushing machines | A A A A A A A A A A A A A A A A A A A | Plus OR WANTED OR | | |
| | | - Not listed as table 1 activity - Respirator with air sampling | JH Requ | |
| (xvii) Heavy equipment and utility vehicles (e.g. bobcat, TLB) used to abrade or fracture silica-containing materials SCM (e.g. hoe-ramming, rock ripping) or used | | Note: The use of "dry" operating rotary cutting head accessory will require first run study including air sampling and off-shift work with Dust Boss(es) | | |
| during demolition activities involving SCM. | | Shape and/or Dust Emissions | | |
| | İ | - CO monitoring - Not listed as table 1 activity - Respirator with air sampling | JH Requ | |
| (xviii) Heavy equipment and utility vehicles for tasks such as | | Manual Manual OR | | |
| grading and excavating but not including (xvii) equipment / tasks | 76.5 | operate Oust Emissions | | |
| Note: For each ample | voo ongaged in a tes | - CO monitoring - Not listed as table 1 activity - Respirator with air sampling | JH Requ | ired |

Note: For each employee engaged in a task identified on Table 1, the employer shall fully and properly implement the engineering controls, work practices, and respiratory protection specified for the task on Table 1, unless the employer assesses and limits the exposure of the employee to respirable crystalline silica in accordance with paragraph 29 CFR 1926.1153(d).

