

PROTECT WORKERS FROM SILICA DUST...

Working in an Enclosed Cab



Breathing it can be deadly.

An enclosed cab can protect the operator if it:

- ls kept as free as possible from dust, and has a properly working air filtration system that has a lter with an ef ciency rating of 95% or higher (e.g., MERV-16). A higher rating means less dust can get through the lter.
- Is **positively pressurized** through the continuous delivery of fresh air. The pressure gauge in the cab should read between 0.05 - 0.25 inches of water (in.w.g. or in.H20)
- ► Has a **heating and cooling system** with air circulation vents that create a one directional air ow, with discharge vents above the equipment operator and pickup vents low in the cab.
- Has a **communication system** that lets the operator talk to other workers without opening the window or door.
- ls regularly **cleaned and properly maintained**, including closing mechanisms, gaskets, and door and other seals.

For workers and bystanders outside the enclosed cab, water and/or dust suppressants can reduce exposure to silica and other dust.

Why it's deadly

Respirable crystalline silica dust particles are very small. You can be in danger even if you can't see the dust. When you breathe dust that contains silica, the tiny particles damage your lungs.

You can get silicosis after just a few weeks of very high exposure. Even breathing small amounts over time can cause silicosis, lung cancer, or COPD. By the time it gets hard to breathe you are already sick. There is no cure for silicosis.

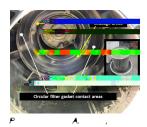
Employers must follow government exposure limits:*

- The Occupational Safety and Health Administration (OSHA) limits construction workers' silica exposure to 50 micrograms per cubic meter (50 μg/m³ - the permissible exposure limit or PEL).
- **The Mine Safety and Health Administration** (MSHA) limits mine workers' exposure to coal dust, which contains silica, to 1,500 micrograms per cubic meter (1,500 μg/m³).

Air filtration system

Inspect the system's Iters for damage or air ow bypass.

Notify your supervisor if the lter needs to be cleaned or replaced.



Cab structure

Inspect the cab daily for holes, gaps, and cracks around doors, windows, joints, power line entries, and controls. Use silicon caulk or rubber gaskets to repair and seal these areas. Notify your supervisor if a door gasket or window seal needs to be replaced.



Check the pressure gauge daily to ensure it works.

Monitor the pressure throughout the work shift to make sure positive air pressure is maintained in the cab-1.2 emdustyir pr (.)