

Table 1: Specified Exposure Control Methods for Construction

29 CFR 1926.1153(c). “APF” is Assigned Protection Factor. “None” means no respirator is required when the listed engineering control is fully and properly implemented. Where a task is restricted to outdoor work, the row is marked accordingly. If a control is off, dry, clogged, or wrong, the task drops out of Table 1 protection and the employer must assess exposure under 1926.1153(d).

#	Task	Engineering & Work Practice Control	Required Respiratory Protection (min. APF)
i	Stationary masonry saws	Continuous integrated water on blade	None
ii	Handheld power saws (any blade)	Continuous integrated water on blade	Outdoors: None ≤4 hr / APF 10 >4 hr. Indoors or enclosed: APF 10 at any duration
iii	Handheld power saws for fiber-cement board, blade ≤8" (outdoors only)	Commercially available dust collection (99% filter, manufacturer airflow)	None
iv	Walk-behind saws	Continuous integrated water on blade	Outdoors: None. Indoors or enclosed: APF 10 at any duration
v	Drivable saws (outdoors only)	Continuous integrated water on blade	None
vi	Rig-mounted core saws or drills	Integrated water to cutting surface	None
vii	Handheld and stand-mounted drills (incl. impact / rotary hammer)	Shroud or cowl with dust collection (99% filter, filter-cleaning mechanism); HEPA vacuum when cleaning holes	None
viii	Dowel drilling rigs for concrete (outdoors only)	Shroud + dust collection (99% filter, filter-cleaning mechanism); HEPA vacuum when cleaning holes	APF 10 at any duration
ix	Vehicle-mounted drilling rigs for rock and concrete	Close-capture hood/shroud + low-flow water spray at discharge; OR enclosed cab + water on bit	None
x	Jackhammers and handheld powered chipping tools	Continuous water at point of impact; OR shroud + dust collection (99% filter, filter-cleaning mechanism)	Outdoors: None ≤4 hr / APF 10 >4 hr. Indoors or enclosed: APF 10 at any duration
xi	Handheld grinders for mortar removal (tuckpointing)	Shroud + dust collection providing ≥25 cfm/inch of wheel diameter, 99% filter, cyclonic pre-separator or filter-cleaning mechanism	APF 10 ≤4 hr / APF 25 >4 hr (highest in Table 1)

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#	Task	Engineering & Work Practice Control	Required Respiratory Protection (min. APF)
xii	Handheld grinders for uses other than mortar removal	Continuous integrated water; OR shroud + dust collection (≥ 25 cfm/inch, 99% filter, cyclonic pre-separator or filter-cleaning mechanism)	With water (outdoors only): None. With dust collection — outdoors: None; indoors or enclosed: None ≤ 4 hr / APF 10 > 4 hr
xiii	Walk-behind milling machines and floor grinders	Continuous integrated water; OR dust collection (manufacturer airflow, 99% filter, filter-cleaning); HEPA vacuum indoors between passes	None
xiv	Small drivable milling machines (less than half-lane)	Supplemental water sprays with surfactant	None
xv	Large drivable milling machines (half-lane and larger)	Exhaust ventilation on drum enclosure + supplemental water sprays; OR supplemental water sprays with surfactant	None
xvi	Crushing machines	Water spray/mist at crusher, hoppers, conveyors, sieves, and discharge points; ventilated booth or remote control station	None
xvii	Heavy equipment / utility vehicles abrading or fracturing silica materials (e.g., hoe-ramming, rock ripping) or used in silica-related demolition	Enclosed cab; water and/or dust suppressants when workers are outside the cab	None
xviii	Heavy equipment / utility vehicles for grading, excavating, etc. (not demolishing, abrading, or fracturing silica materials)	Water and/or dust suppressants as necessary; OR enclosed cab when operator is sole worker engaged in the task	None

Three rules that apply whenever ANY Table 1 control is used

1. Indoor or enclosed tasks need a means of exhaust to minimize the buildup of visible airborne dust.
2. Wet methods must run at flow rates sufficient to actually knock the dust down — “on” is not enough.
3. Enclosed cabs must be sealed, kept under positive pressure, climate-controlled, and supplied with filtered air (95% efficient over $0.3\text{--}10.0\ \mu\text{m}$ — e.g., MERV-16 or better).