

WAC 296-307-19006 What rules apply to guarding abrasive wheels?

(1) Abrasive wheels must be used only on machines provided with safety guards.

EXCEPTION:

This requirement does not apply to the following:

- (a) Wheels used for internal work while the wheel is within the work being ground.
- (b) Mounted wheels 2 inches and smaller in diameter, used in portable operations.
- (c) Types 16, 17, 18, 18R, and 19 cones, plugs, and threaded hole pot balls where the work offers protection.
- (d) Specially shaped "sickle grinding" wheels mounted in mandrel-type bench or floor stands.

(2) The safety guard must cover the spindle end, nut, and flange projections.

EXCEPTIONS:

- (a) When the work provides protection to the operator, the spindle end, nut, and outer flange may be exposed. When the work entirely covers the side of the wheel, the side covers of the guard may be omitted.
- (b) The spindle end, nut, and outer flange may be exposed on portable machines designed for, and used with, type 6, 11, 27, and 28 abrasive wheels, cutting off wheels, and tuck pointing wheels.
- (c) The spindle end, nut, and outer flange may be exposed on machines designed as portable saws.

(3) The guard must cover the sides and periphery of the wheel.

EXCEPTIONS:

- (a) Bench and floor stands;
- (i) The maximum permissible angle of exposure is 90°. This exposure must begin at a point not more than 65° above the horizontal plane of the wheel spindle.
- (ii) Wherever the nature of the work requires contact with the wheel below the horizontal plane of the spindle, the exposure must not exceed 125°. This exposure must begin at a point not more than 65° above the horizontal plane of the wheel spindle.
- (b) Swing-frame grinders may only be exposed on the bottom half; the top half of the wheel must be enclosed at all times.
- (c) Where the work is applied to the top of the wheel, the exposure of the grinding wheel periphery must not exceed 60°.
- (d) When the work entirely covers the side of the wheel, the side covers of the guard may be omitted.

(4) The safety guard must be mounted to maintain proper alignment with the wheel, and the strength of the fastenings must exceed the strength of the guard.

(5) Take care to see that the safety guard is properly positioned before starting the mounted wheel.

(6) Abrasive wheel machinery guards must meet the design specifications of ANSI B7.1-1970.

(7) Exception: WAC 296-307-19006 does not apply to natural sandstone wheels and metal, wooden, cloth, or paper discs, with a layer of abrasive on the surface.

[Statutory Authority: RCW 49.17.040. WSR 98-24-096, § 296-307-19006, filed 12/1/98, effective 3/1/99. WSR 97-09-013, recodified as § 296-307-19006, filed 4/7/97, effective 4/7/97. Statutory Authority: RCW 49.17.040, [49.17.]050 and [49.17.]060. WSR 96-22-048, § 296-306A-19006, filed 10/31/96, effective 12/1/96.]