

**WAC 296-96-24553 Drive machines.** (1) Elevator machines shall be driven by approved-type units.

(a) On direct drive or approved worm gear driven type, a mechanically actuated, electrically released brake shall be installed on the driving unit.

(b) On V belt driven types, a minimum of 4 belts, 1/2 in. minimum size, shall be used to transmit power from the motor to the drive shaft and a mechanically activated, electrically released brake shall be installed on the final drive shaft.

(c) All winding drum machine type elevators shall be equipped with top and bottom final limit switches.

(2) Wherever practical, elevator machines shall be installed on the top side of the supporting structure.

(3) All components of the driving mechanism and parts subject to stress involved in suspending the load or related equipment shall be designed to withstand 8 times the total weight to be suspended, including load, counterweight, car and cables.

(4) Gears shall be made of steel or equivalent material. Cast iron gears are prohibited.

(5) A working platform, with railings complying with the applicable requirements adopted according to chapter 49.17 RCW, shall be provided to allow for safely working on equipment.

(6) A light with a switch shall be located near the elevator driving machine or the machinery space.

(7) A means to lockout/tagout the elevator equipment shall be provided.

(8) The elevator machinery shall be protected from the weather.

(9) All sheaves shall be appropriately guarded per the requirements adopted according to chapter 49.17 RCW.

[Statutory Authority: Chapter 70.87 RCW. WSR 18-18-070, § 296-96-24553, filed 8/31/18, effective 10/1/18.]