

Oregon 49 Rules (Use for Reference Only – Rules no longer applicable)

- (1) A permanent, safe means of access shall be provided for all existing elevators either by stairway or ladder to elevator machine rooms and overhead machinery spaces. Access ladders shall not be installed within the elevator hoistway. Trap doors used for roof access shall be of the hinged, counterbalanced type, except as may be required for the pit.
- (2) Access doors to penthouses and machine rooms shall be equipped with an approved lock that can be opened from the inside without a key.
- (3) All machine rooms shall have a switch controlling the lighting which shall be within easy reach of the access door.
- (4) Sufficient ventilation to keep the temperature under 100 degrees Fahrenheit is required in all penthouses and machine rooms.
- (5) Elevator machine rooms shall be closed off by a lockable grille work or other enclosure to insure against access except by or with owners, building managers, elevator maintenance and repair personnel, governmental inspectors, fire, police and emergency personnel.
- (6) Exposed gears, sprockets, tape and rope sheaves in the machine room and also the ropes and tapes passing through any secondary level shall be guarded in an approved manner to prevent injury to persons.
- (7) The minimum illumination shall be not less than five (5) foot-candles for elevator machine rooms. One (1) foot-candle illumination is 60 watts.
- (8) A car gate shall not be required on elevators having continuous pressure operation. Car gates or doors when closed shall guard the full opening width, except that they need not be more than six (6) feet high. Except on sidewalk elevators, collapsible gates when fully expanded shall reject a ball four and one half (4.5) inches in diameter.
- (9) Power elevators shall be provided with a car safety or safeties attached to the car frame, one of which, shall be located beneath the car enclosure. The safety shall be capable of stopping and sustaining the car with contract load.
- (10) Car safeties shall be annually inspected and tested to determine the condition of the sliding surface and the working parts. These tests shall be made at the elevator's slowest operating speed and may be made either with or without contract load to determine if the device is in operating condition.
- (11) No brakes shall be released until power has been applied to the motor.
- (12) The emergency stop switch in the car shall be of the manually opened and closed type. The will require all electric elevator machines to be equipped with an approved electrically-released brake.
- (13) Electric elevators operated by hand cables, levers, or wheel-operating devices shall be so arranged that, in case of failure of power or interruption of operating circuit, it will be necessary to return the operating device to the "off" position before the elevator can again be started.
- (14) The roping of power elevators with drum type driving machines covered by ORS 460.085 shall:
 - (a) be shackled at the point of contact with the elevator car as required for safe operation, but no more than once every 24 months or less than once every five years unless material damage is evident on inspection.
 - (b) Contain a metal tag attached to each rope after reshackling bearing the date of reshackling and the name of the individual, firm or corporation who performed it.
- (15) Subject to subsection (2) of ORS 460.035, and except where necessary for operation of or communication with the elevator car, no pipes, ducts or wiring shall be installed inside any elevator hoistway.
- (16) Solid bumpers of resilient material may be used for speeds not exceeding 75 feet per minute for elevator if other types of approved buffers are not used.
- (17) A minimum clearance of $\frac{3}{4}$ " shall be maintained between the sides of the car and the hoistway enclosure.
- (18) A minimum clearance of $\frac{1}{2}$ " shall be maintained between the car platform and the landing sill for elevators with steel guide rails of side-post construction, and $\frac{3}{4}$ " for all other elevators. The maximum clearance shall not exceed 1- $\frac{1}{2}$ ".
- (19) All elevators shall have a pit which shall be of sufficient depth to provide a minimum clearance of two (2) feet between the floor of the pit and any structural member of the car or platform when the car or platform is resting on its full compressed buffers.
- (20) A minimum clearance of two (2) feet between the topmost part of the car or crosshead and the overhead structure is required when the car has reached its extreme limit of travel.
- (21) The hoistway shall be enclosed with solid material to a height of not less than six (6) feet above each floor or landing and above each stair tread of the adjacent stairway on all sides not used for loading and unloading. When material is stored adjacent to the hoistway and above six (6) feet in height, the enclosure shall extend to the ceiling.
- (22) The hoistway shall be enclosed from the door lintel to the ceiling on all sides used for loading and unloading unless the car is equipped with an approved car door or gate. Hoistway enclosures above the six (6) foot level may be of openwork construction capable of rejecting a ball two (2) inches in diameter.
- (23) The clearance between the car platform and the hoistway enclosure shall not exceed five (5) inches on

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- the sides used for loading or unloading unless the car is equipped with an approved car door or gate.
- (24) All projections in the hoistway opposite an opening in the car shall be guarded with approved metal shear plates.
- (25) The existing pipes which convey gasses or liquids that would endanger life when discharged into the hoistway shall be removed from the hoistway enclosure.
- (26) Hoistway doors or gates shall be set not more than four (4) inches from the inside edge of the landing threshold.
- (27) Hoistway doors or gates shall be not less than sixty-six (66) inches in height, capable of rejecting a ball two (2) inches in diameter.
- (28) Hoistway doors or gates must be equipped with approved locking devices to assure that the door or gate is closed and locked when the car is away from the landing.
- (29) The hoistway doors of elevators which can be operated from outside the hoistway shall be equipped with approved vision panels or a position indicator.
- (30) All electric elevator machines shall be equipped with an approved electrically operated release brake.
- (31) All hydraulic elevators shall be equipped with an approved electrically controlled operating valve.
- (32) All elevators suspended by cables shall be equipped with an approved governor operated car safety.
- (33) An approved switch or other device is required to cut off the power to the motor and set the brake before or at the time the governor trips.
- (34) Elevators with winding drum machines shall be equipped with a slack-cable device that will cut off the power to the motor and set the brake if any cable should become slack.
- (35) All power elevators shall be equipped with approved normal terminal stopping devices.
- (36) All power elevators shall be equipped with approved final terminal stopping devices.
- (37) Elevator having winding drum machines shall be equipped with an approved machine limit device in addition to the final limit switches located in the hoistway.
- (38) An approved fused disconnect switch or circuit breaker for the elevator machine shall be provided in the machine room adjacent to, and visible from, the elevator machine.
- (39) The controller shall provide the required number of independent switches or brakes necessary to stop the elevator machine.
- (40) All elevator machines and all other associated metal parts and equipment shall be grounded in an approved manner.
- (41) The handle of a car-switch control shall be so arranged that the movement of the handle toward the opening that the operator usually faces will cause the car to descend and the movement away from the opening will cause the car to ascend.
- (42) Elevator cars or platforms shall be enclosed to a minimum height of six (6) feet with solid material on all sides not used for loading or unloading. The car wall shall be extended to the car top in front of, and extended six inches on each side of the counterweight.
- (43) Elevator cars shall be equipped with an approved top emergency exit.
- (44) Elevator cars shall be equipped with an approved car top.
- (45) All existing elevator car having more than one opening shall be equipped with an approved car gate at all openings except the one the operator normally faces.
- (46) A metal tag shall be attached to the safety releasing carrier in a permanent manner giving the month and year of the each annual no-load safety test together with the name of the person or firm who performed the test. No metal tag from a prior test shall be removed until the tag for the current test has been attached.
- (47) Each elevator must contain a sign visible to any user thereof or any person loading the elevator specifying the type of loading for which it is designed and installed.
- (48) Whenever the windows in an existing elevator hoistway enclosure required the installation of guards on the outside of the wall of the building, the guards in the hoistway shall be provided with vertical bars or grating having clearance of at least two (2) inches from the car platform, but in no case shall exceed five (5) inches.
- (49) The fillers required to be installed on existing horizontally-swinging doors of elevators shall not be less than 30" in height. The filler shall be so constructed and installed that the maximum allowable clearance between the hoistway door and the car door or gate cannot be exceeded. The filler shall have no opening larger than 6" and shall be rounded or beveled on the sides and top to provide a smooth, sloping finish from the inside of the hoistway door to the inside edge of the filler.