

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-00650 Which National Elevator Codes and Supplements has the department adopted?

NATIONAL ELEVATOR CODES AND SUPPLEMENTS ADOPTED				
TYPE OF CONVEYANCE	NATIONAL CODE AND SUPPLEMENTS	DATE INSTALLED		COMMENTS
		FROM	TO	
Elevators, Dumbwaiters, Escalators	American Standard Safety Code (ASA) ((A17.1.13)) <u>A17.1</u> , 1962	11/1/1963	12/29/1967	Adopted Standard
Moving Walks	American Safety Association A17.1.13, 1962	11/1/1963	12/29/1967	Adopted Standard
Elevators, Dumbwaiters, Escalators, and Moving Walks	U.S.A. Standards (USAS) USAS A17.1, 1965; Supplements A17.1a, 1967; A17.1b, 1968; A17.1c, 1969;	12/30/1967	2/24/1972	Adopted Standard USAS 1965 includes revision and consolidation of A17.1-1, 1960, A17.1a, 1963, and A17.1-13, 1962. Adopted code and supplements, excluding Appendix E and ANSI 17.1d, 1970.
Elevators, Dumbwaiters, Escalators, and Moving Walks	American National Standard Institute ANSI A17.1, 1971	2/25/1972	6/30/1982	Adopted Standard as amended and revised through 1971.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1, 1971; A17.1a, 1972	2/25/1972	6/30/1982	Adopted Supplement
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1, 1981	7/1/1982	1/9/1986	Adopted Standard
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1a, 1982	3/1/1984	1/9/1986	Adopted Supplement
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1b, 1983	12/1/1984	1/9/1986	Adopted Supplement, except portable escalators covered by Part VIII of A17.1b, 1983.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1, 1984	1/10/1986	12/31/1988	Adopted Standard Except Part XIX. After 11/1/1988 Part II, Rule 211.3b was replaced by WAC 296-81-275.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1a, 1985	1/10/1986	12/31/1988	Adopted Supplement
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1b, 1985; A17.1c, 1986; A17.1d, 1986; and A17.1e, 1987	12/6/1987	12/31/1988	Adopted Supplement
Elevators, Dumbwaiters, Escalators, and Moving Walks	ANSI A17.1, 1987	1/1/1989	12/31/1992	Adopted Standard Except Part XIX and Part II, Rule 211.3b. WAC 296-81-275 replaced Part II, Rule 211.3b.

NATIONAL ELEVATOR CODES AND SUPPLEMENTS ADOPTED				
TYPE OF CONVEYANCE	NATIONAL CODE AND SUPPLEMENTS	DATE INSTALLED		COMMENTS
		FROM	TO	
Elevators, Dumbwaiters, Escalators, and Moving Walks	ASME A17.1, 1990	1/1/1993	2/28/1995	Adopted Standard Except Part XIX and Part V, Section 513. Chapter 296-94 WAC replaced Part V, Section 513.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ASME A17.1, 1993	3/1/1995	6/30/1998	Adopted Standard Except Part XIX and Part V, Section 513. Chapter 296-94 WAC replaced Part V, Section 513.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ASME A17.1, 1996	6/30/1998	6/30/2004	Adopted Standard Except Part V, Section 513.
Elevators, Dumbwaiters, Escalators, and Moving Walks	ASME A17.1, 2000; A17.1a, 2002; A17.1b, 2003	7/1/2004	1/1/2008	Adopted Standards and Addenda Except Rules 2.4.12.2, 8.6.5.8 and Sections 5.4, 7.4, 7.5, 7.6, 7.9, 7.10, 8.10.1.1.3 and 8.11.1.1.
Safety Standards for Platform Lifts and Stairway Chairlifts	ASME A18.1, 1999; A18.1a, 2001; A18.1b, 2001	7/1/2004	1/1/2008	Adopted Standards and Addenda.
Safety Code for Elevators, Escalators, Dumbwaiters, Residential Elevators, Special Purpose	ASME A17.1-2004; A17.1a-2005	1/1/2008	Current	Adopted Standards and Addenda Except Rules 2.4.12.2, marked car top clearance space, 8.6.5.8, Maintenance of safety bulkhead, 5.4, Private residence incline elevators, 7.4 & 7.5 & 7.9 & 7.10 Material lifts, 8.10.1.1.3 and 8.11.1.1, QEI-1 inspector.
Safety Code for Platform Lifts and Stairway Chairlifts	ASME A18.1-2005	1/1/2008	Current	
Safety Code for Belt Manlifts	ASME A90.1-2003	1/1/2008	Current	
Safety Code for Personnel Hoists, Retroactive	ANSI A10.4-2004	1/1/2008	Current	
Note: Copies of codes and supplements can be obtained from The American Society of Mechanical Engineers, Order Department, 22 Law Drive, Box 2900, Fairfield, New Jersey, 07007-2900 or by visiting www.asme.org .				

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-02475 What are the requirements for sprinklers in hoistways and machine rooms? (1) The machine room sprinkler piping must terminate in the machine room. The sprinkler piping must not run through the machine room to other spaces.

(2) The hoistway must not be used to supply sprinkler piping to more than one floor.

(3) The pit will be considered as a floor level.

(4) Sprinkler heads at the top of the shaft must terminate in the shaft. The sprinkler must not run through the hoistway to other spaces. ("Other spaces" includes the machine room.)

(5) All risers and returns must be located outside of the hoistway and machine room.

(6) See requirements in ASME A17.1.

(7) If a sprinkler system is added to an existing installation, the conveyance will be required to:

(a) Install shunt trip per WAC ((~~296-96-02277~~) 296-96-02480.)

(b) If the conveyance was permitted to install on or after 1/1/1989 (A17.1-1987 code), then the fire service must operate to the code enforced per the original installation permit. A controller alteration will require fire and sprinkler system installation to the current adopted code.

(c) If the permit is prior to 12/31/1988, the fire service shall operate per current adopted standard in effect at the time of the alteration permit. (See A17.1-2.27.3.)

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-02515 What is required for car controls? (1) Car controls shall be located within one of the reach ranges specified in ANSI 117.1 section 308. In no instance shall the car call buttons or other device(s) used in addition to or in lieu of, be lower than thirty-six inches from the cab floor height.

((EXCEPTION))

EXEMPTION: Where the elevator panel serves more than sixteen openings and a parallel approach to the controls is provided, buttons with floor designations shall be permitted to be fifty-four inches maximum above the floor.

(2) Elevator car call sequential step scanning shall be provided where car control buttons are provided more than forty-eight inches above the floor.

(3) Floor selection shall be accomplished by applying momentary or constant pressure to the up or down scan button. The up scan button shall sequentially select floors above the current floor. The down scan button shall sequentially select floors above the current floor. When pressure is removed from the up and down scan button for more than two seconds, the last floor selected shall be registered as a car call. The up and down scan button shall be located adjacent to or immediately above the emergency control buttons. (new requirement)

(4) Car control buttons with floor designations shall be raised or flush.

(5) Buttons shall be three-fourth inch minimum in their smallest dimension.

(6) Buttons shall be arranged with numbers in ascending order. When two or more columns of buttons are provided they shall read from left to right.

(7) Control buttons shall be identified by tactile characters complying with ANSI 117.1 section 703.

(8) Tactile characters and Braille designations shall be placed immediately to the left of the control button to which the designations apply.

(9) Car control keypads shall be a standard telephone keypad arrangement.

(10) Keypads shall be identified by visual characters complying with ANSI A117.1 and shall be centered on the keypad button. The number five key shall have a single raised dot.

(11) The dot shall have a base diameter of 0.188 inch minimum to 0.120 inch maximum, and a height of 0.025 inch minimum and 0.037 inch maximum.

(12) Emergency controls shall have their centerlines thirty-five inches minimum above the floor.

(13) Emergency controls including the emergency alarm shall be grouped at the bottom of the panel.

(14) The control buttons for emergency stop, alarm, door open, door close, main entry floor, and phone shall be tactile symbols. Per ANSI table 407.4.7.1.3.

(15) Buttons with floor designations shall be provided with visible indicators to show that a call has been registered. The visible indicator shall extinguish when the car arrives at the designated floor.

((EXCEPTION))

EXEMPTION: Special purpose and residential elevators are exempt from this section.

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-02560 What are the requirements for submersible pumps or sumps? Sump pumps and drains are not required in elevator pits. Sump holes must be installed and measure a minimum of eighteen inches by eighteen inches by eighteen inches. If drains or sump pumps are installed, they must not be directly connected to sewers and/or storm drains. P-traps and check valves are not allowed. All installations must meet the NEC and all plumbing codes. Drains meeting the above requirements may be installed in lieu of sump holes.

Sump hole covers must be designed to withstand a load of three hundred pounds per square foot.

EXEMPTION: Residential elevators, vertical platform lifts, and special purpose lifts are exempt from this section.

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-02570 How do we enforce hoistway ventilation? (1) Area of vents. (~~Except as provided for~~) As required in International Building Code (IBC) and chapter 51-50 WAC in Section 3004.3.1, the area of the vents shall not be less than 3-1/2 percent of the area of the hoistway nor less than three square feet (0.28 m²) for each elevator car, and not less than 3-1/2 percent nor less than one-half square foot (0.047 m²) for each dumbwaiter car in the hoistway, whichever is greater. The total required vent area shall be equipped with dampers that remain powered closed until activated open by the fire alarm system panel. The dampers shall open upon loss of power.

(2) Activation of the powered vent must not be from the same device that activates the phase one fire recall.

EXEMPTION: Special purpose and residential elevators are exempt from this section.

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-02575 How do we enforce hoistway pressurization? Pressurization requirements. Elevator hoistways shall be pressurized to maintain a minimum positive pressure of 0.10 inches of water column with respect to adjacent occupied space on all floors and a maximum pressure so as to not prevent the automatic operation of the elevator doors, as well as accounting for the stack and wind effect expected on the mean low temperature January day. This pressure shall be measured at the midpoint of each hoistway door, with all hoistway doors open at the designated primary recall level and all other hoistway doors closed. The supply air intake shall be from an outside, uncontaminated source located a minimum distance of twenty feet from any air exhaust system or outlet.

(1) Elevator doors. Each elevator door shall operate properly when hoistway pressurization is in effect.

(2) Hoistway venting. Hoistway venting required by Section 3004 need not be provided for pressurized elevator shafts.

(3) Machine rooms. Elevator machine rooms shall be pressurized in accordance with this section unless separated from the hoistway shaft by construction in accordance with the International Building Code, Section 707.

(4) Special inspection. Special inspection for performance shall be required in accordance with the International Building Code, Section 909.18.8. System acceptance shall be in accordance with the International Building Code, Section 909.19.

(a) The elevator department must observe the operation of the

doors and insure proper documentation and tags are on site.

(b) Devices shall have an approved identifying tag or mark on them consistent with the other required documentation and shall be dated indicating the last time they were successfully tested and by whom.

EXEMPTION: Special purpose and residential elevators are exempt from this section.

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-02590 **When does the department require a local building official to sign off for the installation of LULAs, stair lifts, inclined wheelchair lifts and vertical wheelchair lifts?** In existing buildings where LULAs, stair lifts, inclined wheelchair lifts and vertical wheelchair lifts are to be installed, the local building official must signify that he/she is allowing this type of conveyance on a form provided by the department.

EXEMPTION: Residential conveyances are exempt from this section.

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-08200 **What are the requirements for the activation and operation of an inclined private residence conveyances for transporting property?** (1) If activation of the conveyance is by key switch, key pad or swipe card, the activation and operation must conform to the requirements of (a) and (b) of this subsection. The department may approve alternative methods of equal security.

(a) The key or code must be entered each time to move the conveyance.

(b) Key-operated switches must be of the spring return type and must be operated by a weatherproof cylinder type lock having not less than five pin or five disc combination with the key removable only when the switch is in the off position.

(2) If activation is provided by a timing circuit that only permits the circuits to be initiated or unlocked for a sufficient amount of time to allow the loading of materials, the operating circuits must automatically relock:

(a) If the conveyance is not activated within its preset period of time;

(b) When any landing stop button is activated; or

(c) When the car has completed transit to another landing or

returns to the departure landing.

(3) Emergency stop switches must be provided on or adjacent to the operating station. Stop switches:

(a) May be of a momentary type;

(b) Must have red handles or buttons and be conspicuously marked "STOP"; and

(c) Must open even if springs fail when springs are used.

(4) After initiation of stopping, the car may not automatically restart. Run condition must be manually initiated.

(5) Design and installation of control and operating circuits must meet the following:

(a) Control systems based upon the completion or maintenance of an electric circuit must not be used for interrupting power and applying machine brakes at terminals, stopping elevators when an emergency stop switch is open or when any electrical protective device operates, or for stopping a machine when the safety applies.

(b) If springs are used to activate switches, contact, or circuit breaking relays to stop the elevator at a terminal, the springs must be a restrained compression type.

(6) Hand rope operation must not be used.

~~((7) For inclined private residence conveyances installed before January 1, 2008, radio controls may be used in lieu of wiring for all car controls provided:~~

~~(a) The system is set up so that it is fail safe (if radio contact is lost, the unit will stop);~~

~~(b) In such installations, the stop button in the car shall interrupt the circuit of frequency; and~~

~~(c) The controls are permanently mounted and comply with the applicable rules.)~~

AMENDATORY SECTION (Amending WSR 04-12-047, filed 5/28/04, effective 6/30/04)

WAC 296-96-13157 What requirements apply to car safeties?

All cars suspended or operated from overhead machinery must be equipped with an approved car safety capable of stopping and holding the car while carrying its rated load.

(1) Car safeties must be mechanically operated and not be affected by any interruptions in the electrical circuit.

(2) Car safeties and governor controlled safeties must operate automatically and the control circuit must be broken in the event of cable breakage.

(3) A no-load annual safety test must be performed and a tag with the date and company conducting the test must be attached to the governor with a wire and seal. A safety tag must also be permanently affixed to the inside of the car.

(4) A five-year full load test must be performed and a safety tag with the date and company conducting the test must be

permanently attached to the governor with a wire and seal. A safety tag must also be permanently affixed to the inside of the car. Documentation must be submitted to the department.

Qualified people will conduct the test. A qualified person is either:

(a) An elevator mechanic licensed in the appropriate category for the conveyance being tested;

(b) The representative of a firm that manufactured the particular (~~material lift~~) conveyance and who holds a current temporary mechanic's license in this state; or

(c) The representative of a firm that manufactured the particular (~~material lift~~) conveyance who is working under the direct supervision of an elevator mechanic licensed in the appropriate category for the conveyance being tested.

(5) Separate safety tags must be used to distinguish the no-load annual safety test and the five-year full load test.

AMENDATORY SECTION (Amending WSR 04-12-047, filed 5/28/04, effective 6/30/04)

WAC 296-96-14080 What additional requirements apply to the installation and operation of hand powered manlifts? (1) Only employees and other authorized personnel may ride in a lift car.

(2) Escape ladders must be installed extending the full length of the hoistway and must be located in a position so that in an emergency a person can safely transfer from the car platform to the ladder. Transfer is considered safe when a person can maintain three points of contact while making the transfer. An "IMPAIRED CLEARANCE" sign must be posted at the bottom of a ladder when the face of the ladder is less than 30 inches from any structure.

(3) An automatic safety device which will prevent the car from leaving the landing until manually released by the operator must be installed at the bottom landing.

(4) A fire extinguisher in proper working condition must be available in the car.

(5) A five-year full load test must be performed and a tag indicating the date and the company conducting the test must be permanently attached with a wire and a seal. Documentation of the test submitted to the department. Manlifts with wooden rails must have a no-load drop test performed on the equipment.

Qualified people will conduct the test. A qualified person is either:

(a) An elevator mechanic licensed in the appropriate category for the conveyance being tested;

(b) The representative of a firm that manufactured the particular (~~material lift~~) conveyance and who holds a current temporary mechanic's license in this state; or

(c) The representative of a firm that manufactured the

particular (~~(material lift)~~) conveyance who is working under the direct supervision of an elevator mechanic licensed in the appropriate category for the conveyance being tested.

(6) A no load annual safety test must be performed and a tag indicating the date and company conducting the test must be attached to the conveyance with a wire and seal. A safety tag must also be permanently affixed to the inside of the car.

AMENDATORY SECTION (Amending WSR 07-24-041, filed 11/30/07, effective 1/1/08)

WAC 296-96-23610 What requirements apply to routine periodic inspections and tests? The owner or the owner's agent must ensure that her/his conveyances are inspected and tested on a periodic annual basis by a person qualified to perform such services. All conveyances must be tested to the applicable code(s) by an elevator mechanic licensed in the appropriate category for the conveyance being tested. (See appendix N in ASME A17.1.)

(1) For annual testing of electric, hydraulic, and roped hydraulic elevators, a log indicating the date of testing with all pertinent data included must be posted in the machine room. The log must be completed by the qualified person performing the test.

(a) A log indicating the date of testing with all pertinent data included must be posted in the machine room. The log must be completed by the licensed elevator mechanic performing the test.

(b) It is the responsibility of the owner or the owner's representative to install an updated log sheet in the machine room; the outdated log shall remain posted in the machine room.

(2) Required for fire fighters' service portion of the log. It is the owner's responsibility to test fire fighters' service operation of Phase I and Phase II key switches quarterly and annually perform the smoke detector test.

Note: The fire service key switch(es) and smoke detector testing may be performed and logged by the building owner.

(3) For five-year testing:

(a) A full-load safety test must be performed with weights on all conveyances except hydraulic elevators.

(b) For roped hydraulic elevators a static load test with the full load on the car must also be performed.

(c) For tests administered under this subsection:

(i) A safety tag with the date and company conducting the test must be permanently attached to the governor, safeties, and the rupture valves with a wire and seal.

(A) For vertical platform lifts and stair chairs the tag must be located at the disconnecting means.

(B) Separate safety tags must be used to distinguish the no-load annual safety test and the five-year full load test.

(ii) Documentation must be submitted to the department on the approved state form.

(d) Qualified people will conduct the test. A qualified person is either:

(i) An elevator mechanic licensed in the appropriate category for the conveyance being tested;

(ii) The representative of a firm that manufactured the particular (~~material lift~~) conveyance, and who holds a current temporary mechanic's license in this state; or

(iii) The representative of a firm that manufactured the particular (~~material lift~~) conveyance who is working under the direct supervision of an elevator mechanic licensed in the appropriate category for the conveyance being tested.

Escalators shall be tested and cleaned annually. Upon completion of this work, the appropriate form indicating that the work was done must be submitted to the department.

(4) All other conveyances requiring annual testing must have tags indicating the date and the name of the company who performed the test. When the required location for mounting the tag is not readily accessible, the tag may be mounted on the main line disconnect.