

## Chapter Comm 18

### ELEVATORS, ESCALATORS AND LIFT DEVICES

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**Note:** Chapter Ind 4 as it existed on August 31, 1988 was repealed and a new chapter ILHR 18 was created effective September 1, 1988. Chapter ILHR 18 was renumbered to be chapter Comm 18 under s. 13.93 (2m) (b) 1., Stats., and corrections made under s. 13.93 (2m) (b) 6. and 7., Stats., Register, October, 1996, No. 490. Corrections were made under s. 13.93 (2m) (b) 6., Stats., Register, April, 1998, No. 508. Chapter Comm 18 as it existed on November 30, 1999 was repealed and a new chapter Comm 18 was created effective December 1, 1999. Chapter Comm 18 as it existed on March 31, 2004, was repealed and a new chapter Comm 18 was created, Register March 2004 No. 579, effective April 1, 2004.

#### Subchapter I — Scope and Application

**Comm 18.1001 Purpose.** The purpose of this chapter is to protect the health, safety and welfare of the public and employees by establishing minimum standards for the design, construction, installation, operation, inspection, testing, maintenance, alteration and repair of elevators, escalators and lift devices installed in or at a public building and a place of employment.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1002 Scope. (1) COVERED EQUIPMENT.** This chapter applies to any of the following equipment installed in or at a public building and a place of employment:

- (a) Passenger elevators.
- (b) Freight elevators.
- (c) Limited-use/limited application elevators.
- (d) Inclined elevators.
- (e) Power sidewalk elevators.
- (f) Rooftop elevators.
- (g) Special purpose personnel elevators.
- (h) Private residence elevators installed in public buildings or places of employment prior to July 1, 2002.
- (i) Power dumbwaiters.
- (j) Escalators.
- (k) Moving walks.
- (L) Stage and orchestra lifts.
- (m) Type B material lifts.
- (n) Vertical platform lifts within the scope of ASME A18.1a.
- (o) Inclined platform lifts within the scope of ASME A18.1a.
- (p) Stairway chairlifts within the scope of ASME A18.1a.

**Note:** Conveyors, personnel hoists and manlifts located in the private sector are covered by the Occupational Safety and Health Act of 1970. In the public sector, this equipment is covered by ch. Comm 32.

**(2) EXEMPTED EQUIPMENT.** This chapter does not apply to any of the following equipment:

- (a) Personnel hoists within the scope of ANSI A10.4.
- (b) Material hoists within the scope of ANSI A10.5.
- (c) Manlifts within the scope of ASME A90.1
- (d) Mobile scaffolds, towers, and platforms within the scope of ANSI A92.
- (e) Powered platform and equipment for exterior and interior building maintenance within the scope of ASME A120.1.
- (f) Conveyors and related equipment within the scope of ASME B20.1.
- (g) Cranes, derricks, hoists, hooks, jacks, and slings within the scope of ASME B30.
- (h) Industrial trucks within the scope of ASME B56.
- (i) Portable equipment, except for portable escalators, which are covered by ASME A17.1 section 6.1.
- (j) Tiering or piling machines used to move material to and from storage located and operating entirely within one story.
- (k) Equipment for feeding or positioning material at machine tools, printing presses, and other similar equipment.
- (L) Skip or furnace hoists.
- (m) Wharf ramps.
- (n) Amusement devices.
- (o) Lift bridges.
- (p) Railroad car lifts and dumpers.
- (q) Mechanized parking garage equipment.
- (r) Line jacks, false cars, shafters, moving platforms, and similar equipment used for installing an elevator.
- (s) Platform elevators installed in a ship or offshore drilling rig and used for the purpose of loading and unloading cargo, equipment, and personnel.
- (t) Dock levelers, such as freight platform lifts, having a travel of 12 inches (500 mm) or less.
- (u) Shipboard elevators.
- (v) Mine elevators.
- (w) Type A material lifts.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1003 Application. (1) NEW AND EXISTING INSTALLATIONS.** (a) *Code application.* Except as specified in par.

(b), all new and existing installations and alterations of equipment covered by this chapter shall conform to the provisions in this chapter in effect on the contract date.

(b) *Exceptions.* 1. Handrails installed in elevators prior to July 1, 2002 may be removed.

2. Oil return pumps for hydraulic elevators contracted prior to the effective date of this code may be removed and replaced as allowed by ASME A17.1 section 3.18.3.7. Written permission shall be obtained from the owner for the removal of the oil return pump and it shall be recorded in the maintenance log as specified in s. Comm 18.1008 (3).

3. The requirements in ASME A17.1 sections 5.10, 8.1, 8.6, 8.7, 8.9, 8.10, and 8.11 apply to both new and existing installations.

4. Stage and orchestra lifts shall comply with the applicable provisions in ASME A17.1 Parts 1 to 4.

(2) DEPARTMENT AUTHORITY. The department shall have the authority to interpret the requirements in this chapter and in all adopted codes and standards.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1004 Definitions.** In this chapter:

(1) "Alteration" means any change to equipment, including its parts, components, or subsystems, other than maintenance, repair, or replacement.

(2) "Approved" means acceptable to the department.

(3) "ANSI" means the American National Standards Institute.

(4) "ASME" means the American Society of Mechanical Engineers.

(5) "Building code" means chs. Comm 61 to 65, which is the Wisconsin Commercial Building Code.

**Note:** The Wisconsin Commercial Building Code, chs. Comm 61 to 65, adopts by reference the *International Building Code*® (IBC), the *International Energy Conservation Code*™ (IECC), the *International Mechanical Code*® (IMC) and the *International Fuel Gas Code*® (IFGC). Comm 14, Fire Prevention Code, may have rules that may affect the maintenance and use of an existing building.

(6) "Department" means the department of commerce.

(7) "Municipality" means a city employing an elevator inspector certified by the department.

**Note:** See ch. Comm 5 for elevator inspector certification requirements.

(8) "Place of employment" has the meaning given in s. 101.01 (11), Stats.

**Note:** Section 101.01 (11), Stats., reads "Place of employment includes every place, whether indoors or out or underground and the premises appurtenant thereto where either temporarily or permanently any industry, trade or business is carried on, or where any process or operation, directly or indirectly related to any industry, trade or business, is carried on, and where any person is, directly or indirectly, employed by another for direct or indirect gain or profit, but does not include any place where persons are employed in private domestic service which does not involve the use of mechanical power or in farming. "Farming" includes those activities specified in s. 102.04 (3), and also includes the transportation of farm products, supplies or equipment directly to the farm by the operator of said farm or employees for use thereon, if such activities are directly or indirectly for the purpose of producing commodities for market, or as an accessory to such production. When used with relation to building codes, "place of employment" does not include an adult family home certified under s. 50.01 (1) or , except for the purposes of s. 101.11, a previously constructed building used as a community-based residential facility, as defined in s. 50.01 (1g), which serves 20 or fewer unrelated residents."

(9) "Public building" has the meaning given in s. 101.01 (12), Stats.

**Note:** Section 101.01 (12), Stats., reads "Public building means any structure, including exterior parts of such building, such as a porch, exterior platform or steps providing means of ingress or egress, used in whole or in part as place of resort, assemblage, lodging, trade, traffic, occupancy, or use by the public or by 3 or more tenants. When used in relation to building codes, "public building" does not include a previously constructed building used as a community-based residential facility as defined in s. 50.01 (1g) which serves 20 or fewer unrelated residents or an adult family home defined under s. 50.01 (1)."

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1005 Adoption of standards.** (1) ASME A17.1 SAFETY CODE. The Safety Code for Elevators and Escalators, ASME A17.1-2000, subject to the modifications specified in subch. V is incorporated by reference into this chapter. If a

requirement in the ASME A17.1 contains cross-references to another ASME A17.1 requirement that has been modified by this chapter, that modification shall apply to the cross-reference also, unless specifically stated otherwise.

(2) ASME A18.1A SAFETY STANDARD. The Safety Standard for Platform Lifts and Stairway Chairlifts, ASME A18.1a-2001, subject to the modifications specified in subch. VI is hereby incorporated by reference into this code. If a requirement in the ASME A18.1a contains a cross-reference to another ASME A18.1a requirement that has been modified by this chapter, that modification shall apply to the cross-reference also, unless specifically stated otherwise.

**Note:** A copy of the ASME A17.1 and ASME A18.1a standards is on file in the offices of the department and revisor of statutes. Copies of these standards may be purchased from the ASME, 22 Law Drive, Box 2900, Fairfield, N.J. 07007-2900, or telephone (800) 843-2763.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1006 Fees.** Fees for plan examination, installation application, inspection, permit to operate and other services performed by the department pertaining to elevators and related equipment shall be submitted as specified in ch. Comm 2.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Subchapter II — Responsibilities, Appeals, Petitions, and Penalties**

**Comm 18.1007 Enforcement.** Department staff, and municipal inspectors and certified inspectors who have received a letter of authorization from the department shall enforce this chapter as specified in ss. Comm 18.1708 (5) to (8), and 18.1810.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1008 Owners' responsibilities.** (1) SUBMISSION OF PLANS. The submission of plans, specifications and application form shall be the responsibility of the building owner when the manufacturer, manufacturer's representative or distributor does not submit that information.

(2) PERMIT TO OPERATE. (a) The owner of any equipment covered by this chapter shall obtain and maintain a valid permit to operate.

(b) The permit to operate shall be kept on the premises.

(3) MAINTENANCE LOG. A maintenance record as specified in ASME A17.1 section 8.6.1.4 shall be made available to the inspector upon request.

(4) ACCIDENT REPORTING. (a) *Accidents to be reported.* Whenever an elevator or other installation covered by this chapter causes injury to any person, the owner or person in control of the elevator shall notify the department within 48 hours of the accident. The report shall include the date and time of the accident, the location of the elevator or device involved in the accident and description of the accident.

**Note:** The department may be contacted at Phone: (608) 266-7548 during normal business hours. The State Division of Emergency Management can be contacted at (800) 943-0008 during nonbusiness hours.

(b) *Operation discontinued.* When an accident involves the failure or destruction of an elevator or other installation covered by this chapter and results in injury to a person who requires immediate medical attention, the elevator or device shall be taken out of service and shall not be used again until authorized by the department.

(c) *Removal of parts restricted.* No part of the damaged installation, construction or operating mechanism shall be removed from the premises until the department grants permission.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1009 Installer's responsibility.** (1) ON-SITE FABRICATION OR INSTALLATION. On-site fabrication or installation of equipment covered by this chapter shall not commence before the application and plans are approved. The approval letter shall be posted prior to construction at or near the equipment space

at the construction site, and shall remain posted until passing the final inspection.

**Note:** See s. Comm 2.15 for fee requirements.

**(2) AVAILABILITY OF PLANS.** The installer of equipment as specified in s. Comm 18.1002 (1) and installed in or at public buildings and places of employment shall have available at the building site a copy of the approved plans for the elevator or other equipment covered by this chapter.

**(3) INSTALLATION, REPAIR, REPLACEMENT AND ALTERATION INFORMATION.** The equipment installer shall provide to the owner's representative a copy of the approved plans.

**(4) MAINTENANCE INFORMATION.** The equipment installer shall provide to the owner's representative the maintenance requirements necessary for the safe operation of the equipment installed.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1010 Appeals. (1) APPEAL OF DEPARTMENT ORDER.** Pursuant to s. 101.02 (6) (e), Stats., any person who owns or operates a property that is affected by an order of the department may petition the department for a hearing on the reasonableness of the order.

**(2) APPEAL OF LOCAL ORDER.** Pursuant to s. 101.02 (7) (b), Stats., any person affected by a local order that is in conflict with a provision of this chapter may petition the department for a hearing on the grounds that the local order is unreasonable and in conflict with the rule of the department.

**Note:** Section 101.01 (8), Stats., defines "local order" as any ordinance, order, rule or determination of any common council, board of alderpersons, board of trustees or the village board, of any village or city, a regulation or order of the local board of health, as defined in s. 250.01 (3), or an order or direction of any official of a municipality, upon any matter over which the department has jurisdiction.

**Note:** Section 101.02 (7), Stats., reads "Upon receipt of such petition the department shall order a hearing thereon, to consider and determine the issues raised by such appeal, such hearing to be held in the village, city or municipality where the local order appealed from was made. Notice of the time and place of such hearing shall be given to the petitioner and such other persons as the department may find directly interested in such decision, including the clerk of the municipality or town from which such appeal comes. If upon such investigation it shall be found that the local order appealed from is unreasonable and in conflict with the order of the department, the department may modify its order and shall substitute for the local order appealed from such order as shall be reasonable and legal in the premises, and thereafter the said local order shall, in such particulars, be void and of no effect.

**(3) CONTESTED CASE HEARING.** In addition to any other right provided by law, any interested person may file a written request for a contested case hearing, as specified in s. 227.42, Stats.

**(4) PETITION OF ADMINISTRATIVE RULE.** Pursuant to s. 227.12, Stats., any municipality, corporation or any 5 or more persons having an interest in an administrative rule may petition the department requesting the adoption, amendment or repeal of the rule.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1011 Petition for variance.** The department shall consider and may grant a variance to a provision in this chapter in accordance with ch. Comm 3. The petition for variance shall include, where applicable, a position statement from the fire department or local building official having jurisdiction, or both.

**Note:** Chapter Comm 3 requires the submittal of a petition for variance form (SBD 9890) and a fee, and that an equivalency is established in the petition for variance that meets the intent of the rule being petitioned. Chapter Comm 3 also requires the department to process regular petitions within 30 business days and priority petitions within 10 business days.

**Note:** Copies of the petition for variance form SBD-9890 are available at no charge from the Safety and Buildings Division, P.O. Box 7162, Madison, Wisconsin 53707-7162, or telephone (608) 266-3151 and TTY (608) 264-8777, or at the Safety and Buildings' web site at [www.commerce.state.wi.us](http://www.commerce.state.wi.us).

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1012 Penalties.** Penalties for violations of this chapter shall be assessed in accordance with s. 101.02, Stats.

**Note:** Section 101.02 (12), Stats., indicates that every day during which any person, persons, corporation or any officer, agent or employee thereof, fails to observe and comply with an order of the department will constitute a separate and distinct violation of such order.

**Note:** Section 101.02 (13) (a), Stats., indicates penalties will be assessed against any employer, employee, owner or other person who fails or refuses to perform any duty lawfully enjoined, within the time prescribed by the department, for which no penalty has been specifically provided, or who fails, neglects or refuses to comply with any lawful order made by the department, or any judgment or decree made by any court in connection with subchapter I of ch. 101, Stats. For each such violation, failure or refusal, such employee, owner or other person must forfeit and pay into the state treasury a sum not less than \$10 nor more than \$100 for each violation.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

### Subchapter III — Plan Review

**Comm 18.1013 Plan examination. (1) NEW INSTALLATIONS.** (a) *Number of plans.* At least 3 copies of bound plans and specifications for all new installations covered by this chapter and at least 3 copies of the department application form SBD-22 shall be submitted to the department or municipality for examination and approval.

(b) *Information on layout drawings.* Information on layout drawings shall conform to the applicable sections in ASME A17.1 and ASME A18.1a and with all of the following.

1. A plan of the car, hoistway and machine room showing all clearances, including all inside car or platform dimensions specified in this chapter and the building code.

2. A cross-section drawing through the hoistway, machine room, pit and car that shows all applicable dimensions. Landings shall be shown, indicating types of hoistway doors or gates.

3. A complete dimensioned layout of the machine room showing working clearances around machine, controller and disconnecting means.

4. The size and weight per foot of guiderails and details of their support, including reinforcements where required.

5. Sufficient data and information to determine if the elevator, mechanical lifting device and machine room comply with the requirements of this chapter and the building code.

6. At least one copy of the plans containing the original shop drawing stamp of the supervising building designer.

(c) *Evidence of building plan approval.* Evidence of building plan approval shall be included with the elevator plan submittal.

**(2) ALTERATIONS.** (a) *Plans and application required.* 1. At least 3 copies each of plans and specifications complying with sub. (1) and a department application form SBD-22 shall be submitted to the department or municipality for examination and approval for any of the alterations specified in Tables Comm 18.1013-1 to 18.1013-3.

2. When an alteration includes a building modification, evidence of building plan approval shall be submitted along with the elevator plan submittal.

**Table Comm 18.1013-1  
Elevator Alterations  
Submittal of Plans and Application Required**

Type of Alteration	General Requirements	
	Electric Elevators	Hydraulic Elevators
Relocation of machine room or machinery spaces, or changes in machine room or machinery layout	ASME A17.1-8.7.2.7	ASME A17.1-8.7.3.7
Addition of hoistway doors or gates	ASME A17.1-8.7.2.10	ASME A17.1-8.7.3.10
Increase in deadweight plus rated load is more than 5%	ASME A17.1-8.7.2.15.2	ASME A17.1-8.7.3.21
Decrease in deadweight plus rated load is more than 5%	ASME A17.1-8.7.2.15.2	NA
Change in classification	ASME A17.1-8.7.2.16	ASME A17.1-8.7.3.17
Increase or decrease in rated load	ASME A17.1-8.7.2.16.4	ASME A17.1-8.7.3.20
Increase or decrease in travel	ASME A17.1-8.7.2.17.1	ASME A17.1-8.7.3.22.1
Increase in rated speed	ASME A17.1-8.7.2.17.2	ASME A17.1-8.7.3.22.2
Decrease in rated speed	ASME A17.1-8.7.2.17.3	ASME A17.1-8.7.3.22.3
Alterations to guide rails	ASME A17.1-8.7.2.24	ASME A17.1-8.7.3.28
Replacement of drive machines	ASME A17.1-8.7.2.25.1	ASME A17.1-8.7.3.23.4 and 8.7.3.24
Change in location of drive machine	ASME A17.1-8.7.2.25.2	ASME A17.1-8.7.3.23.5
Installation of controllers	ASME A17.1-8.7.2.27.4	ASME A17.1-8.7.3.31.5

**Table Comm 18.1013-2  
Alterations to Escalators and Moving Walks  
Submittal of Plans and Application Required**

Type of Alteration	General Requirements	
	Escalator	Moving Walk
Relocation of escalator or moving walk	ASME A17.1-8.7.6.1.2	ASME A17.1-8.7.6.2.2
Alteration to floor openings	ASME A17.1-8.7.6.1.3	ASME A17.1-8.7.6.2.3
Alteration to trusses and machinery spaces	ASME A17.1-8.7.6.1.4	ASME A17.1-8.7.6.2.4
Change to angle of inclination or geometry	ASME A17.1-8.7.6.1.5 (a) and (b)	ASME A17.1-8.7.6.2.5 (a) and (b)
Alteration to balustrades	ASME A17.1-8.7.6.1.5 (c)	ASME A17.1-8.7.6.2.5 (c)
Alteration to combplates	ASME A17.1-8.7.6.1.8	ASME A17.1-8.7.6.2.8
Alteration to trusses and girders	ASME A17.1-8.7.6.1.9	ASME A17.1-8.7.6.2.9
Alteration to track system	ASME A17.1-8.7.6.1.10	ASME A17.1-8.7.6.2.10

**Table Comm 18.1013-3  
Alteration to Dumbwaiters and Material Lifts  
Submittal of Plans and Application Required**

Type of Alteration	General Requirements
	Dumbwaiters and Material Lifts
Conversion of dumbwaiter or material lift to an elevator	ASME A17.1-8.7.7.3.3

(b) *Application required.* At least 3 copies of a completed department application form SBD-22 shall be submitted to the department or municipality for examination and approval for the alterations specified in Tables Comm 18.1013-4 to 18.1013-7:

**Table Comm 18.1013-4  
Alterations to Elevators  
Submittal of Application Required**

Type of Alteration	General Requirements	
	Electric Elevators	Hydraulic Elevators
Repair of speed governor	ASME A17.1-8.6.2.3	ASME A17.1-8.6.2.3
Repair of releasing carrier	ASME A17.1-8.6.2.4	ASME A17.1-8.6.2.4
Replacement of speed governor	ASME A17.1-8.6.3.6	ASME A17.1-8.6.3.6
Addition or alteration to door reopening devices	ASME A17.1-2.27.3.1.6 (e), ASME A17.1-2.13.5 and ICC/ANSI A117.1-407.2.5	ASME A17.1-2.27.3.1.6 (e), ASME A17.1-2.13.5 and ICC/ANSI A117.1-407.2.5
Alteration of speed governor	ASME A17.1-8.7.2.19	ASME A17.1-8.7.3.16
Replacement of or alteration to hoistway doors	ASME A17.1-8.7.2.10.1 and ASME A17.1-8.7.2.11.2	ASME A17.1-8.7.3.10
Addition of hoistway door-locking devices	ASME A17.1-8.7.2.11.1 and ASME A17.1-8.7.2.11.2	ASME A17.1-8.7.3.11
Alteration or addition of power operation of car or hoistway doors	ASME A17.1-8.7.2.12	ASME A17.1-8.7.3.12
Installation of new safeties	ASME A17.1-8.7.2.18	ASME A17.1-8.7.3.15
Change in size or type of suspension ropes	ASME A17.1-8.7.2.21.1	ASME A17.1-8.7.3.25
Alteration to oil buffers	ASME A17.1-8.7.2.23	ASME A17.1-8.7.3.27
Alteration to drive machine brakes	ASME A17.1-8.7.2.25.1	NA
Alteration to terminal stopping device	ASME A17.1-8.7.2.26	ASME A17.1-8.7.3.30
Addition of top-of-car operating devices	ASME A17.1-8.7.2.27.1	ASME A17.1-8.7.3.31.1
Change in type of control	ASME A17.1-8.7.2.27.5	ASME A17.1-8.7.3.31.6
Change in type of operation	ASME A17.1-8.7.2.27.6	ASME A17.1-8.7.3.31.7
Alteration to emergency or standby power system	ASME A17.1-8.7.2.28	ASME A17.1-8.7.3.31.8 (b)
Alteration to firefighters' emergency operation	ASME A17.1-8.7.2.28	ASME A17.1-8.7.3.31.8 (c)
Alteration to or replacement of a plunger or cylinder	NA	ASME A17.1-8.7.3.23.1-8.7.3.2.3.3
Increase in working pressure	NA	ASME A17.1-8.7.3.23.4
Replace valves, pressure piping	NA	ASME A17.1-8.7.3.24
Alteration to or installing auxiliary power lowering	NA	ASME A17.1-8.7.3.31.9

**Table Comm 18.1013-5  
Alterations to Escalators and Moving Walks  
Submittal of Application Required**

Type of Alteration	General Requirements	
	Escalator	Moving Walks
Alteration to handrails	ASME A17.1-8.7.6.1.6	ASME A17.1-8.7.6.2.6
Alteration to step system or treadway system	ASME A17.1-8.7.6.1.7	ASME A17.1-8.7.6.2.7
Alteration to trusses and girders	ASME A17.1-8.7.6.1.9	ASME A17.1-8.7.6.2.9
Increase of rated load or speed	ASME A17.1-8.7.6.1.11	ASME A17.1-8.7.6.2.11
Alteration to driving machine, motor and brake	ASME A17.1-8.7.6.1.12	ASME A17.1-8.7.6.2.12
Alteration or addition of operating and safety devices	ASME A17.1-8.7.6.1.13	ASME A17.1-8.7.6.2.13
Alteration to or addition of lighting access and electrical work	ASME A17.1-8.7.6.1.14	ASME A17.1-8.7.6.2.14

**Table Comm 18.1013-6**  
**Alterations to Dumbwaiters and Material Lifts**  
**Submittal of Application Required**

Type of Alteration	General Requirements
	Dumbwaiter or Material Lift
Increase in rated load	ASME A17.1-8.7.7.1.2

**Table Comm 18.1013-7**  
**Alterations to Platform Lifts**  
**Submittal of Application Required**

Type of Alteration	General Requirements
	Platform Lifts
Alteration to safeties or speed governors	ASME A18.1a-2.8
Alteration to plungers	ASME A18.1a-8.1.3
Alteration to cylinders	ASME A18.1a-8.1.4
Alteration to or addition of machine room	Comm 18.1802 (1) (a)
Alteration to hydraulic valves	Comm 18.1808 (1), (2), (3) and (6)

**Note:** "NA" in Tables Comm 18.1013-1 to Comm 18.1031-7 means "Not applicable".

**Note:** See Comm 2.15 for fee requirements.

**Note:** Copies of the application form SBD-22 are available at no charge from the Safety and Buildings Division, P.O. Box 7162, Madison, Wisconsin 53707-7162, or telephone (608) 266-3151 and TTY (608) 264-8777, or at the Safety and Buildings' web site at [www.commerce.state.wi.us](http://www.commerce.state.wi.us).

**(3) PLAN REVIEW ACTIONS.** (a) *Review of plans.* All approvals of plans and applications for installation, repair, replacement, or alteration shall be performed by the department or by municipal elevator inspectors.

(b) *Conditional approval.* If, upon examination, the department or municipality determines that the plans and application for installation, repair, replacement, or alteration substantially comply with the provisions of this chapter, a conditional approval, in writing, shall be granted. All noncode-complying conditions stated in the conditional approval shall be corrected before or during construction. A conditional approval issued by the department or municipality shall not be construed as an assumption of any responsibility for the design or construction of the equipment.

(c) *Revocation of approval.* The department or municipality may revoke any approval, issued under the provisions of this chapter, for any false statements or misrepresentation of facts on which the approval was based.

(d) *Denial of approval.* If the department or municipality determines that the plans or the application do not substantially comply with the provisions of this chapter, the application for conditional approval shall be denied, in writing.

(e) *Processing time.* Pursuant to s. Comm 2.07 (3), the department or municipality shall review and make a determination on an application for approval of an installation or an alteration within 15 business days.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04; CR 06-119: am. (3) (e) Register July 2007 No. 619, eff. 8-1-07.

**Comm 18.1014 Permit to operate. (1) ISSUANCE.** After each acceptance inspection, periodic inspection, or test of equipment covered by this chapter is performed and found to be in compliance with this chapter, a permit to operate shall be issued by the department or municipality. The department or municipality shall issue a permit to operate within 10 business days from receipt of an inspection report showing compliance.

**(2) EXPIRATION.** Permits to operate shall be effective from the date of issuance until 20 business days after the next routine inspection.

**(3) REVOCATION.** The department or municipality may revoke the permit to operate if the equipment is found to be in noncompliance with the applicable safety standard. Upon revocation of the permit to operate, the department or municipality shall notify the owner, in writing, of the noncomplying items and afford the

owner the opportunity for a hearing within 30 days after the date of revocation.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

#### Subchapter IV — Inspections

##### Comm 18.1015 Inspection responsibilities.

**(1) CERTIFICATION.** Persons who inspect equipment covered by this chapter shall be certified in accordance with s. Comm 5.64 and have a letter of authorization from the department to perform inspections for equipment covered under this chapter.

**(2) INSPECTOR PROCEDURES.** (a) *Certified elevator inspector procedures.* Certified elevator inspectors shall comply with all of the following procedures:

1. A certified elevator inspector shall submit written verification to the department of an agreement between the owner and the certified inspector for inspection services no later than 30 calendar days after inspection service on equipment covered by this chapter is started. When an owner discontinues certified elevator inspection services, the certified elevator inspector shall notify the department not more than 30 days from the date of cancellation. The reason for discontinuing the certified elevator inspector service shall be given in the report.

2. A certified elevator inspector shall file an inspection report with the department, on a form approved by the department, within 10 business days after the inspection. The report shall identify items of noncompliance. Items listed on the inspection report as being out of compliance with this chapter shall be corrected on or before the compliance date stated on the report.

3. When a certified elevator inspector does not file a periodic inspection report with the department within 30 calendar days from the expiration date of the permit to operate, the department may perform the inspection. If the department conducts the inspection, the owner will be charged a fee in accordance with s. Comm 2.15 for each inspection.

4. If a certified elevator inspector is unable to obtain compliance with this chapter, the inspector shall notify the department. If the department conducts the inspection, the owner will be charged a fee in accordance with s. Comm 2.15 for each inspection.

(b) *Municipal inspection procedures.* Municipalities shall comply with all of the following:

1. Employ certified elevator inspectors to perform plan review and inspection functions.

2. Forward to the department any information requested by the department relative to the examination of plans and inspections of elevators, escalators or lift devices.

3. Notify the department, in writing, at least 30 days prior to the date upon which the municipality intends to relinquish the plan examination and inspection responsibilities for equipment covered under this chapter. The reason for discontinuing the plan review and inspection services shall be given in the report.

(c) *Department inspection procedures.* 1. The department shall be notified when work that is covered by s. Comm 18.1013 is complete and ready for an inspection to be scheduled.

2. a. If the equipment is not complete and ready at the time of the scheduled inspection, the inspection will not be made and a cancellation fee will be assessed in accordance with ch. Comm 2, and a reinspection will be scheduled.

b. Unless the inspector receives in writing a cancellation of a scheduled inspection at least 7 days prior to the scheduled inspection date, a fee as specified in ch. Comm 2 will be assessed for the cancellation.

3. Equipment found to be in noncompliance shall be re-inspected as determined by the inspector to obtain compliance with the provisions of this chapter.

(3) **REGISTRATION NUMBERS.** All new elevators or other devices as specified in s. Comm 18.1002 (1), shall be assigned a registration number by the department or municipality. The registration number shall be located in an area that is readily visible to authorized persons.

(4) **TYPES OF INSPECTIONS OR TESTS.** (a) *Acceptance inspections and tests.* The department or a municipality shall perform acceptance inspections and tests as specified in ASME A17.1 section 8.10, and ASME A18.1a section 10.1.3.

(b) *Periodic or routine inspections.* The department, municipality or a certified elevator inspector shall perform periodic or routine inspections as specified in ASME A17.1 section 8.11, and ASME A18.1a sections 10.2 and 10.3.

(c) *Periodic tests.* 1. Periodic tests shall be performed by persons possessing a minimum of 2 years of elevator construction, elevator service or elevator inspection experience. Proof of experience qualifications shall be submitted to the department upon request.

2. The department may require witnessing of periodic tests or retests. Reports containing complete information of these tests shall be submitted to the department on form SBD-2E for electric elevators, or SBD-3 for hydraulic elevators.

**Note:** Copies of the forms SBD-2E and SBD-3 are available at no charge from the Safety and Buildings Division, P.O. Box 2509, Madison, Wisconsin 53707, or telephone (608) 266-1818 or TTY (608) 264-8777, or at the Safety and Buildings' web site at [www.commerce.state.wi.us](http://www.commerce.state.wi.us).

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

## Subchapter V — Changes, additions or omissions to ASME A17.1-2000

**Comm 18.1700 Changes, additions or omissions to ASME A17.1.** Changes, additions or omissions to the ASME A17.1 are specified in this subchapter are rules of the department and are not requirements of the ASME A17.1.

**Note:** The sections in this chapter are generally numbered to correspond with the section numbering in the ASME A17.1; e.g., s. Comm 18.1702 corresponds to ASME A17.1 Part 2.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1701 Scope and application.** (1) **SCOPE.** The requirements in ASME A17.1 section 1.1 are not included as part of this chapter.

**Note:** See ss. Comm 18.1001 to 18.1003 for purpose, scope and application requirements.

**Note:** See ASME A18.1a and subch. VI for requirements relating to vertical and inclined platform lifts, and stairway chairlifts.

(2) **PURPOSE AND EXCEPTIONS.** The requirements in ASME A17.1 section 1.2 are not included as part of this chapter.

**Note:** See ss. Comm 18.1001 to 18.1003 for purpose, scope and application requirements.

(3) **DEFINITIONS.** Substitute the following definitions for the corresponding definitions listed in ASME A17.1 section 1.3:

(a) "Approved" has the meaning specified in s. Comm 18.1004 (2).

(b) "Authority having jurisdiction" means the department.

(c) "Building code" has the meaning specified in s. Comm 18.1004 (5).

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1702 Electric elevators.** (1) **EQUIPMENT PERMITTED.** This is a department informational note to be used under ASME A17.1 section 2.7.2.1:

**Note:** See Comm 82 for prohibition of sumps and sump pumps in elevator machine rooms.

(2) **MACHINE ROOMS AND MACHINERY SPACES.** (a) *Access to machine rooms and machinery spaces.* These are department rules in addition to the requirements in ASME A17.1 section 2.7.3.1:

1. Access to the machine room or penthouse for elevators shall not be through any toilet room, sleeping room or private room or space.

2. Access to other spaces in a building or facility shall not pass through the machine room.

(b) *Access doors and openings.* 1. This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.4.1: The entrance to the machine room and control rooms shall be identified with a permanent sign. The lettering on the sign shall be at least one-inch high and state "elevator machine room", or equivalent wording.

2. This is a department rule in addition to the requirements in ASME A17.1 section 2.7.3.4.3: Hoistway access doors shall be provided with an electric contact to remove power to the driving means when the panel is not in the closed position.

(c) *Temperature and humidity.* This is a department informational note to be used under ASME A17.1 section 2.7.5.2:

**Note:** See the building code for requirements prohibiting the transfer of contaminated air.

(3) **PIPES, DUCTS, TANKS AND SPRINKLERS.** This is a department rule in addition to the requirements in ASME A17.1 section 2.8.2.3: Where sprinklers are installed in connection with an elevator machine room or hoistway, the elevator, regardless of the vertical travel distance, shall comply with ASME A17.1 sections 2.27.3 to 2.27.8 for emergency recall and emergency in-car operation.

(4) **GUARDING OF EQUIPMENT.** This is a department rule in addition to the requirements in ASME A17.1 section 2.10.1: The openings in machinery room floors, through which cables pass, shall be fitted with suitable guards to prevent any loose material from coming in contact with the cables, and to prevent any loose parts from dropping through the openings. The guards shall be at least 2 inches high and shall be securely attached to the floor.

(5) **HOISTWAY DOOR UNLOCKING DEVICES.** This is a department rule in addition to the requirements in ASME A17.1 section 2.12.6.2: The unlocking device operating key shall be located adjacent to the elevator disconnecting means located in the machine room. The key shall be identified and the following instructions shall be posted: "Place the disconnecting means in the off position and lock it, prior to using the hoistway door unlocking key."

(6) **CAPACITY AND LOADING.** This is a department informational note to be used under ASME A17.1 section 2.16.1.1:

**Note:** See s. Comm 62.3002 for stretcher-sized elevator requirements.

(7) **MARKING PLATES FOR SAFETIES.** This is a department rule in addition to the requirements in ASME A17.1 section 2.17.14: The manufacturer's model number shall also be marked on the metal plate.

(8) **MARKING PLATES FOR SPEED-GOVERNORS.** This is a department rule in addition to the requirements in ASME A17.1 section 2.18.9: The manufacturer's model number shall also be marked on the metal plate.

(9) **OPERATING DEVICES AND CONTROL EQUIPMENT.** This is a department rule in addition to the requirements in ASME A17.1 section 2.26.4.1: All electrical equipment and wiring shall comply with ch. Comm 16, Electrical Code.

(10) **EMERGENCY OPERATION AND SIGNALING DEVICES.** (a) *Emergency or standby power system.* This is a department informational note to be used under ASME A17.1 section 2.27.2:

**Note:** Standby power requirements for elevators in healthcare facilities are found in the National Electrical Code, Article 517 as adopted under ch. Comm 16. In other types of buildings stand-by power requirements are found in the building code under IBC chapter 62.

(b) *Switch keys.* This is a department rule in addition to the requirements in ASME A17.1 section 2.27.8: An additional set of switch keys and elevator machine room access keys for use by the fire department, police department, or other authorized personnel shall be kept in a metal box mounted in a conspicuous location adjacent to the main elevator entrances at the designated floor or other approved location. The box shall have a lock-type cover, which can be opened by the fire department, police department, or other authorized personnel.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1703 Hydraulic elevators.** (1) **REFUGE SPACE ON TOP OF CAR ENCLOSURE.** This is a department rule in addition to the requirements in ASME A17.1 section 3.4.7: Refuge space on top of a car enclosure shall be identified in accordance with ASME A17.1 section 2.4.12.2.

(2) **CYLINDERS BELOW GROUND.** These are department rules in addition to the requirements in ASME A17.1 section 3.18.3.8.3:

(a) The material protecting the cylinder shall withstand the installation process.

(b) The requirements in ASME A17.1 section 3.18.3.8.3 (c) may not be used as a single means of protection.

(3) **ANTI-CREEP OPERATION.** Substitute the following wording for the requirements in ASME A17.1 section 3.26.3.1.2: The anti-creeper device shall maintain the car within 1/2 inch of the landing irrespective of the position of the hoistway door.

**Note:** See ss. Comm 18.1005 (1) and (2) for application of cross-references within the adopted standards.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1705 Special application elevators.**

(1) **LIMITED-USE/LIMITED APPLICATION ELEVATORS.** This is a department rule in addition to the requirements in ASME A17.1 section 5.2.1.8: Where sprinklers are installed in connection with an elevator machine room or hoistway, the elevator, regardless of the vertical travel distance, shall comply with ASME A17.1 sections 2.27.3.1 and 2.27.3.2 for emergency recall for electric elevators, or ASME A17.1 sections 3.27.1, 3.27.2, and 3.27.3, for emergency recall for hydraulic elevators, as applicable. In addition, electric and hydraulic elevators shall comply with ASME A17.1 section 2.27.8 and s. Comm 18.1702 (10) (b) for switch keys and machine room keys.

(2) **PRIVATE RESIDENCE ELEVATORS.** Substitute the following wording for the requirements in ASME A17.1 section 5.3:

(a) *General.* Except as specified in par. (b), the requirements in ASME A17.1 section 5.3 are not included as part of this chapter.

(b) *Exception.* Private residence elevators installed in public buildings or places of employment prior to July 1, 2002 shall comply with ASME A17.1 section 5.3 as applicable to any repair, replacement or alteration of the installed equipment.

(3) **PRIVATE RESIDENCE INCLINED ELEVATORS.** Substitute the following wording for the requirements in ASME A17.1 section 5.4: The requirements in ASME A17.1 section 5.4 are not included as part of this chapter.

(4) **SHIPBOARD ELEVATORS.** The requirements in ASME A17.1 section 5.8 are not included as part of this chapter.

(5) **MINE ELEVATORS.** The requirements in ASME A17.1 section 5.9 are not included as part of this chapter.

(6) **ELEVATORS USED FOR CONSTRUCTION.** This is a department rule in addition to the requirements in ASME A17.1 section 5.10.1.21.2: All elevators shall have an assigned operator while in use.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1707 Dumbwaiter and Type B material lifts.**

(1) **POWER AND HAND DUMBWAITERS WITHOUT AUTOMATIC TRANSFER DEVICES.** Substitute the following wording for the requirements in ASME A17.1 Part 7, Scope: This part applies to power dumbwaiters and Type B material lifts.

(2) **HOISTWAY-ACCESS DOORS.** This is a department rule in addition to the requirements in ASME A17.1 section 7.1.11.5: Hoistway access door panels for power dumbwaiters shall be provided with an electric contact to remove power to the driving means when the panel is not in the closed position.

(3) **HOISTWAY-DOOR VISION PANELS.** Substitute the following wording for the requirements in ASME A17.1 section 7.1.11.8: Vision panels shall be provided in hoistway doors where position indicators are not provided. Vision panels shall comply with ASME A17.1 sections 2.11.7.1.2, 2.11.7.1.3, 2.11.7.1.4 and 2.11.7.1.6, and the total area of one or more vision panels in any hoistway door shall not be less than 4 in.<sup>2</sup> and not more than 25 in.<sup>2</sup>.

**Note:** See ICC/ANSI A117.1 section 404.2.11 for vision panels in doors.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1708 General requirements.**

(1) **FIRE EXTINGUISHERS.** Substitute the following wording for the requirements in ASME A17.1 section 8.6.1.6.5: Class "ABC" fire extinguishers shall be provided in, or adjacent to, electrical machinery and control spaces and shall be readily accessible to the access door to these spaces.

(2) **RECORD OF OIL USAGE.** This is a department rule in addition to the requirements in ASME A17.1 section 8.6.5.7: Owners shall maintain a written record of oil usage on a quarterly basis.

(3) **SAFETY BULKHEAD.** Substitute the following wording for the requirements in ASME A17.1 section 8.6.5.8: Elevators installed prior to January 1, 1975 and that have below ground hydraulic cylinders shall be tested in accordance with ASME A17.1 sections 8.11.3.2.1 and 8.11.3.2.2, and ASME A17.1 section 8.6.5.7. If these annual tests indicate the cylinder below ground is leaking oil, the hydraulic cylinder shall be replaced.

(4) **SPECIAL PROVISIONS.** This is a department informational note to be used under ASME A17.1 section 8.6.10:

**Note:** Emergency evacuation procedures for elevators and start-up procedures for escalators and moving walks will not be evaluated by the department.

(5) **ALTERATIONS TO ELECTRIC ELEVATORS.** (a) *Door reopening device.* Substitute the following wording for the requirements in ASME A17.1 section 8.7.2.13: Where a reopening device for power operated car doors or gates is altered, replaced, or added, all of the following requirements shall apply:

1. Requirement ASME A17.1 section 2.13.4.

2. Requirement ASME A17.1 section 2.13.5.

3. When emergency recall and emergency in-car operation is provided, door reopening devices and door closing shall comply with the requirements applicable at the time of installation of the emergency operations and ASME A17.1 section 2.27.3.1.6 (e).

(b) *Increase in travel.* This is a department rule in addition to the requirements in ASME A17.1 section 8.7.2.17.1: When an alteration involves an increase in travel and the altered elevator

meets ASME A17.1 section 2.27.3 (a), the applicable requirements of ASME A17.1 section 2.27.3.1 to 2.27.8 shall be provided.

(c) *Emergency operations and signaling devices.* This is a department rule in addition to the requirements in ASME A17.1 section 8.7.2.28: When emergency recall and emergency in-car operations are installed, the operations shall conform to the requirements of ASME A17.1 section 2.27.3.

**Note:** See s. Comm 18.1013 (2) relating to plan review requirements.

**(6) ALTERATIONS TO HYDRAULIC ELEVATORS.** (a) *Increase in travel.* This is a department rule in addition to the requirements in ASME A17.1 section 8.7.3.22.1: When an alteration involves an increase in travel and the altered elevator is not exempt from the requirements in ASME A17.1 section 2.27.3 (a), the applicable requirements of ASME A17.1 section 3.27 shall be provided.

(b) *Emergency operation and signaling devices.* This is a department rule in addition to the requirements in ASME A17.1 section 8.7.3.31.8: When emergency recall and emergency in-car operations are installed, the operations shall conform to the requirements of ASME A17.1 section 3.27.

**Note:** See s. Comm 18.1013 (2) relating to plan review requirements.

**(7) CODE DATA PLATE.** Substitute the following wording for the requirements in ASME A17.1 section 8.9 introductory paragraph: ASME A17.1 section 8.9 contains requirements for all new equipment within the scope of this chapter.

**(8) ACCEPTANCE INSPECTIONS AND TESTS, GENERAL REQUIREMENTS.** Substitute the following wording for the requirements in ASME A17.1 sections 8.10.1.1.1 and 8.10.1.1.3:

(a) *Persons authorized to make acceptance inspections and tests.* Inspectors performing acceptance inspections for new or altered installations shall comply with ss. Comm 18.1015 (1), (2) (b) and (c), and (4) (a).

(b) *Persons installing or altering equipment.* This is a department rule in addition to the requirements in ASME A18.1a section 8.10.1.1.2: The installation shall not be placed in service until authorized by the department or municipality.

**(9) PERIODIC INSPECTIONS AND TESTS, GENERAL REQUIREMENTS.** (a) *Persons authorized to make periodic inspections and tests.* Substitute the following wording for the requirements in ASME A17.1 sections 8.11.1.1, 8.11.1.1.1, and 8.11.1.1.2:

1. Inspectors performing periodic inspections and tests shall comply with s. Comm 18.1015 (1), (2) (a), and (4) (b) and (c).

(b) *Periodic inspection and test frequency.* Substitute the following wording for the requirements in ASME A17.1 section 8.11.1.3:

1. ‘Periodic inspections.’ The frequency of periodic inspections shall be made at intervals not longer than one year.

2. ‘Periodic tests.’ a. The frequency of category one periodic tests shall not be longer than one year.

b. The frequency of category 3 periodic tests shall not be longer than 3 years.

c. The frequency of category 5 periodic tests shall not be longer than 5 years.

(c) *Installation placed out of service.* Substitute the following wording for the requirements in ASME A17.1 section 8.11.1.4:

1. a. Except as specified in subd. 1. b., periodic inspection and tests shall not be required when an installation is placed out of service as specified subd. 2.

b. Before an installation is put back in service, it shall be subject to the required periodic inspection and tests.

2. Installations placed out of service includes any of the following:

a. An installation whose power feed lines have been disconnected from the load side terminal of the mainline disconnect switch and the disconnect switch has been sealed by the department.

b. An electric elevator, hydraulic elevator, dumbwaiter, or material lift whose hoistway doors have been permanently barricaded or sealed in the closed position on the hoistway side.

c. A hand power elevator whose bull wheel drive rope has been removed, brake set in the lock position with the car at the lowest landing, guide rails pinned above the top car guides to prevent upward movement, and whose hoistway doors are permanently barricaded or sealed in the closed position on the hoistway side.

d. An escalator or moving walk whose entrances have been permanently barricaded.

**(10) PERIODIC INSPECTION AND TESTS, ELECTRIC ELEVATORS.** (a) *Periodic test requirements, Category One.* The requirements in ASME A17.1 sections 8.11.2.2.1, 8.11.2.2.2 (b), and 8.11.2.2.7 are not included as part of this chapter.

(b) *Periodic test requirements, Category Five.* 1. This is a department rule in addition to the requirements of ASME A17.1 section 8.11.2.3.1: Any damaged section of wood guide rails shall be replaced.

2. The requirements in ASME A17.1 sections 8.11.2.3.3, 8.11.2.3.4, and 8.11.2.3.5 are not included as part of this chapter.

**(11) PERIODIC INSPECTION AND TESTS, HYDRAULIC ELEVATORS.** (a) *Relief valve setting and system pressure test, and cylinder testing.* The requirements in ASME A17.1 sections 8.11.3.2.1 and 8.11.3.2.2 apply only to hydraulic elevators installed prior to January 1, 1975 and that have below ground cylinders.

(b) *Additional periodic test requirements—Category One.* The requirements in ASME A17.1 section 8.11.3.2.3 (d) and (f) are not included as part of this chapter.

(c) *Periodic test requirements—Category Three.* The requirements in ASME A17.1 section 8.11.3.3.1 are not included as part of this chapter.

**History:** CR 03–047: cr. Register March 2004 No. 579, eff. 4–1–04.

### **Comm 18.1709 Reference codes, standards, and specifications.**

Substitute the following wording for the requirements in ASME A17.1 Table 9.1, entry ANSI/ICC A117.1–(latest edition): Accessibility shall be provided in accordance with ICC/ANSI A117.1–1998 as incorporated by reference in s. Comm 61.05.

**History:** CR 03–047: cr. Register March 2004 No. 579, eff. 4–1–04.

## **Subchapter VI — Changes, additions or omissions to ASME A18.1a–2001**

### **Comm 18.1800 Changes, additions or omissions to ASME A18.1a.**

Changes, additions or omissions to the ASME A18.1a–2001 are specified in this subchapter and are rules of the department and are not requirements of the ASME A18.1a.

**Note:** The sections in this chapter are generally numbered to correspond with the section numbering in the ASME A18.1a; e.g., s. Comm 18.1801 corresponds to ASME A18.1a Part L.

**History:** CR 03–047: cr. Register March 2004 No. 579, eff. 4–1–04.

### **Comm 18.1801 Scope. (1) EQUIPMENT COVERED BY THIS STANDARD.**

Substitute the following wording for the requirements in ASME A18.1a section 1.1: The scope and application requirements for equipment covered by this code shall be as specified in ss. Comm 18.1002 and 18.1003.

**Note:** Vertical platform lifts, inclined wheelchair lifts and stairway chairlifts may be used as permitted in the building code.

**Note:** Under s. 101.13 (1), Stats. “access” means the physical characteristics of a place which allow persons with functional limitations caused by impairments of sight, hearing, coordination or perception of persons with semi-ambulatory or non-ambulatory disabilities to enter, circulate within and leave a place of employment or public building and use the public toilet facilities and passenger elevators in the place of employment or public building without assistance.

**(2) DEFINITIONS.** Substitute the following definitions for the corresponding definitions in ASME A18.1a section 1.3:

(a) “Authority having jurisdiction” means the department.

(b) "Building code" has the meaning given in s. Comm 18.1004 (5).

(3) REFERENCE CODES, STANDARDS, AND SPECIFICATIONS. Substitute the following wording for the requirements in ASME A18.1a Table 1.4-1, entry ANSI A117.1-1986: Accessibility shall be provided in accordance with ICC/ANSI A117.1-1998 as incorporated by reference in s. Comm 61.05.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1802 Vertical platform lifts. (1) RUNWAY ENCLOSURE PROVIDED.** (a) *Machine room enclosures.* These are department rules in addition to the requirements of ASME A18.1a section 2:

1. Except as specified in subd. 2., machine room enclosures shall comply with ASME A17.1 section 5.2.1.7.

2. a. A fire extinguisher or ground-fault-circuit-interrupter receptacle is not required.

b. Ventilation of the machine room is only required when the manufacturer specifies the ventilation.

(b) *Vertical shaft.* This is a department rule in addition to the requirements in ASME A18.1a section 2.1.1.1: Where provided, a vertical shaft shall be designed and constructed in accordance with this chapter and with the building code.

(c) *Runway guarding.* This is a department rule in addition to the requirements in ASME A18.1a section 2.1.1.3: The clearance between the platform and door glazing insets shall be not more than 1-1/4 inches. The shear possibility under the door header and glazing insets shall be guarded by sheet steel not less than 0.0747 inches in thickness, at an angle not less than 60 degrees nor more than 75 degrees from the horizontal. It shall be securely attached to the door.

(d) *Doors.* These are department rules in addition to the requirements in ASME A18.1a section 2.1.1.4: Runway doors and platform gates shall comply with all of the following:

1. A set of lift operating keys and a door unlocking device, which is intended for use by the fire department, police department, or other authorized personnel shall be located in a container marked "Emergency lift entry". The container shall be located adjacent to the lift on the main entrance level.

2. a. Except as specified in subd. 2. b., a vision panel shall be provided in each runway door and a portion of the vision panel shall be located between 40 inches and 44 inches above the floor. The vision panel shall be at least 24 square inches in size.

b. If glazing material is used in a rated runway door, the glazing material shall comply with the building code.

(e) *Platform enclosures.* Substitute the following wording for the requirements in ASME A18.1a section 2.1.1.7: The platform enclosure walls shall comply with all of the following:

1. The platform enclosure walls on the sides not used for entrance or exit shall be of smooth construction to a height of at least 42 inches above the platform floor with no openings, other than those necessary for operation. Openings necessary for operation shall reject a ball 1/2 inches in diameter. A full passenger enclosure on the platform shall be prohibited.

2. A grab rail extending the full length of either side wall shall be provided at a height of 34 inches to 38 inches above the platform floor. The grab rails shall not project more than 4 inches from the platform side wall.

3. The running clearance between the platform enclosure walls and the runway enclosure shall be not be less than 2 inches nor more than 3 inches.

(2) PARTIAL RUNWAY ENCLOSURE PROVIDED. (a) *Unperforated construction.* This is a department rule in addition to the requirements in ASME A18.1a section 2.1.2.6: The running clearance between the platform and entrance and exit sides shall be not less than 3/8 inch nor more than 3/4 inch.

(b) *Enclosure walls.* Substitute the following wording for the requirements in ASME A18.1a section 2.1.2.7: The platform enclosure walls shall comply with all of the following:

1. The platform enclosure walls on the sides not used for entrance or exit shall be of smooth construction to a height of at least 42 inches above the platform floor with no openings, other than those necessary for operation. Openings necessary for operation shall reject a ball 1/2 inches in diameter. A full passenger enclosure on the platform shall be prohibited.

2. A grab rail extending the full length of either side wall shall be provided at a height between 34 inches to 38 inches above the platform floor. The grab rails shall not project more than 4 inches from the platform side wall.

3. The running clearance between the platform enclosure wall and the vertical face of the machine housing shall be not less than 2 inches nor more than 3 inches. Where an obstruction or surface less than 42 inches above the top landing other than machine housing, stationary guard panels, shutter type (telescoping) guard panels or sides used for entering and exiting is within 12 inches of the platform enclosure walls and presents a pinching, shearing, or crushing hazard, a smooth continuous surface shall be provided extending from the lower landing to a height of not less than 42 inches above the top landing. Where an obstruction or surface is between 42 inches and 80 inches above the top landing, a smooth continuous surface shall be provided extending from the lower landing to a height of not less than 3 inches above the obstruction. The continuous surface shall be located on the lift side of the obstruction not closer than 2 inches to the platform enclosure walls.

(3) RUNWAY ENCLOSURE NOT PROVIDED. The requirements in ASME A17.1 section 2.1.3 are not included as part of this chapter.

(4) LOWER LEVEL ACCESS RAMPS AND PITS. Substitute the following wording for the requirements in ASME A18.1a section 2.1.5:

(a) *Pits.* Lifts conforming to ASME A18.1a sections 2.1.1 or 2.1.2 may have a pit.

(b) *Ramps.* Any difference in elevation between the floor of the platform lift and floor level of the building shall be overcome by ramps complying with the building code.

(5) ELECTRICAL EQUIPMENT. Substitute the following wording for the requirements in ASME A18.1a section 2.1.6.2: Electrical equipment shall comply with ch. Comm 16.

(6) PLATFORM SIZE. Substitute the following wording for the requirements in ASME A18.1a section 2.6.5:

(a) *Size of platform.* Except as specified in par. (b), the net platform area of a lift shall have a minimum clear width of 36 inches and a minimum clear length of 54 inches. The net inside platform area shall not exceed 18 square feet. Platform lift controls may not project more than 4 inches from the platform side wall measured between a minimum of 30 inches to a maximum of 48 inches above the platform floor. The minimum platform width between allowed projections shall not be less than 32 inches.

(b) *Side entrance platforms.* The net platform area for platform lifts with side doors shall have not more than 18 square feet with a minimum clear width of 39 inches and minimum clear length of 60 inches.

(7) LIMITATION OF LOAD, SPEED AND TRAVEL. Substitute the following wording for the requirements in ASME A18.1a section 2.7.1: A vertical wheelchair lift shall comply with all of the following:

(a) *Rated load.* The rated load shall be 750 lbs.

(b) *Sustaining and lowering a load.* The lift shall be capable of sustaining and lowering a load as specified in ASME A18.1a Figure 9.7.

(c) *Rated speed.* The rated speed shall not exceed 30 feet per minute.

(d) *Travel limits.* Travel shall not exceed 14 feet.

**(8) OPERATING DEVICES AND CONTROL EQUIPMENT.** (a) *Operation.* These are department rules in addition to the requirements in ASME A18.1a section 2.10.1: Wheelchair platform lifts shall comply with all of the following:

1. ICC/ANSI A117.1 section 407.4.2 for call buttons.
2. ICC/ANSI A117.1 section 407.4.4 for tactile characters at runway entrances.
3. ICC/ANSI A117.1 section 407.4.9 for car controls, except the control buttons are not required to have visible indicators to show that a call has been registered or when the car arrives at a floor.
4. ICC/ANSI A117.1 section 407.4.10 for emergency communications.

**Note:** See ss. Comm 18.1802 and 18.1803 for requirements for minimum platform sizes and IBC chapter 10 for maintenance of minimum means of egress widths for the building occupants.

**Note:** See s. Comm 61.05 (5) for incorporation by reference of ICC/ANSI A117.1.

**Note:** See ICC/ANSI A117.1 section 408 for additional platform lift requirements.

(b) *Attendant operation.* The requirements in ASME A18.1a section 2.10.2 are not included as part of this code.

(c) *Electrical equipment and wiring.* Substitute the following wording for the requirements in ASME A18.1a sections 2.10.9.1 and 2.10.9.2: Electrical equipment shall comply with ch. Comm 16.

(d) *Manual operation.* Substitute the following wording for the requirements in ASME A18.1a section 2.10.10: Means shall be provided to permit authorized personnel from a position outside of the runway enclosure to raise or lower the platform manually in the event of power failure, unless standby power is provided.

**(9) EMERGENCY SIGNALS.** Substitute the following wording for the requirements in ASME A18.1a sections 2.11, 2.11.1 and 2.11.2:

(a) *Authorized personnel continuously available on site.* In buildings where authorized personnel are continuously available on site, lifts shall be provided with an audible signaling device, operable from the emergency stop switch, marked also with "ALARM" or from a separate switch marked "ALARM" which is located in or adjacent to the platform operating panel. The switch marked "ALARM" shall illuminate when actuated. The audible signaling device shall comply with all of the following:

1. Have a rated sound pressure rating of not less than 80 dBA and no more than 90 dBA at 10 feet (3 m).
2. Respond without delay after the switch has been activated.
3. Be located inside the building and audible inside the platform and outside the runway.

(b) *Authorized personnel not available.* In buildings where authorized personnel are not continuously available within the building, the platform shall be provided with a means within the platform for communicating with or signaling to authorized personnel responsible for taking appropriate action. The communications or signaling means shall remain operable during a failure of the normal building power supply. The power source shall be capable of providing for the operation of all of the following:

1. The audible signaling device and illumination of the alarm switch or visual identification for at least one hour.
2. The signaling and communications means for at least four hours.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1803 Inclined platform lifts. (1) RUNWAYS.**

(a) *Means of egress.* Substitute the following wording for the requirements in ASME A18.1a section 3.1.1: Lifts shall be installed so that the means of egress is maintained as required in the building code. The minimum means of egress width shall be measured with the lift in its operational position.

**Note:** See IBC chapter 10 for means of egress requirements.

(b) *Ramp.* Substitute the following wording for the requirements in ASME A18.1a section 3.1.4.2: Any difference in elevation between the floor of the platform lift and the floor level of the building shall be overcome by ramps complying with the building code.

(c) *Electrical equipment and wiring.* Substitute the following wording for the requirements in ASME A18.1a section 3.1.6: Electrical equipment shall comply with ch. Comm 16.

**(2) FLOOR AREA.** (a) *Platform area.* Substitute the following wording for the requirements in ASME A18.1a section 3.6.4:

1. The net platform area for a lift complying with ASME A18.1a section 3.6.8.1 shall have a minimum clear width of 36 inches and a minimum clear length of 54 inches.

2. The net platform area of a lift complying with ASME A18.1a section 3.6.8.2 shall not exceed 12 square feet and shall have a minimum clear width of 30 inches and a minimum clear length of 48 inches.

(b) *Ramp.* This is a department rule in addition to the requirements of ASME A18.1a section 3.6.8.2.3: Any difference in elevation between the floor of the platform lift and the floor level of the building shall be overcome by ramps complying with the building code.

**(3) CAPACITY, LOAD, SPEED, AND ANGLE OF INCLINATION.** (a) *Limitations of capacity, load, and speed.* Substitute the following wording for the requirements in ASME A18.1a section 3.7.1:

1. An inclined platform lift shall be limited to serve 3 stops and 2 consecutive stories.
2. The capacity shall be one person.
3. The rated load shall be not less than 450 pounds and not greater than 750 pounds. The lift shall be capable of sustaining and lowering a load as specified in ASME A18.1a Figure 9.7.
4. The rated speed measured along the incline shall not exceed 30 feet per minute.

(b) *Capacity plate.* This is a department rule in addition to the requirements in ASME A18.1a section 3.7.3: A sign stating the capacity of the lift shall be posted at each landing or on the lift in a conspicuous location. Lettering for this sign shall be a minimum of one-inch high and shall comply with ICC/ANSI A117.1 section 703.2.2 to 703.2.8.

**(4) ATTENDANT OPERATION.** The requirements in ASME A18.1a section 3.10.2 are not included as part of this chapter.

**Note:** See informational note under s. Comm 18.1801 (1) for statute definition of "access."

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1804 Inclined stairway chairlifts. (1) GENERAL.** This is a department rule in addition to the requirements in ASME A18.1a section 4 intro. paragraph: Stairway chairlifts complying with this section may not be used as part of an accessible route in public buildings or places of employment.

**Note:** See the building code and the ICC/ANSI A117.1 chapter 4 for acceptable components of an accessible route.

**(2) RUNWAYS.** Substitute the following wording for the requirements in ASME A18.1a section 4.1.1: Inclined stairway chairlifts shall be installed so the minimum means of egress width is maintained as required in the building code.

**(3) LIMITATIONS OF CAPACITY, LOAD, AND SPEED.** This is a department rule in addition to the requirements in ASME A18.1a section 4.7.1: An inclined stairway chairlift shall be limited to serve 3 stops and 2 consecutive stories.

**(4) ELECTRICAL EQUIPMENT AND WIRING.** Substitute the following wording for the requirements in ASME A18.1a sections 4.10.3.1 and 4.10.3.2: Electrical equipment shall comply with ch. Comm 16.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1805 Private residence vertical platform lifts.** Substitute the following wording for the requirements in ASME A18.1a section 5: Private residence vertical platform lifts

are prohibited installations in public and common use areas within public buildings or places of employment.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1806 Private residence inclined platform lifts.** Substitute the following wording for the requirements in ASME A18.1a section 6: Private residence inclined platform lifts are prohibited installations in public and common use areas within public buildings or places of employment.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1807 Private residence inclined stairway chairlifts.** Substitute the following wording for the requirements in ASME A18.1a section 7: Private residence inclined stairway chairlifts are prohibited installations in public and common use areas within public buildings or places of employment.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1808 Hydraulic driving means.** These are department rules in addition to the requirements in ASME A18.1a section 8.1:

(1) **SHUTOFF VALVES.** A manually operated shutoff valve shall be provided between the hydraulic machines and the hydraulic cylinder and shall be located outside the hoistway and adjacent to the hydraulic machine on all hydraulic platform lifts.

(2) **PUMP RELIEF VALVE.** (a) *General.* Except as specified in par. (b), each pump or group of pumps shall be equipped with one or more relief valves conforming to all of the following requirements:

1. The relief valve shall be located between the pump and the check valve and shall be of such a type and so installed in the bypass connection that the valve cannot be shut off from the hydraulic system.

2. The size of the relief valve and bypass shall be sufficient to pass the maximum rated capacity of the pump without raising the pressure more than 50% above the working pressure. Two or more relief valves may be used to obtain the required capacity.

3. Relief valves shall be sealed after being set to the correct pressure.

(b) *No relief valve.* A relief valve is not required for centrifugal pumps driven by induction motors, provided the shut-off, or maximum pressure that the pump can develop, is not greater than 135% of the working pressure at the pump.

(3) **CHECK VALVE.** A check valve shall be provided and shall be so installed that it will hold the platform lift with rated load at any point when the pump stops and the down valves are closed or the maintained pressure drops below the minimum operating pressure.

(4) **PRESSURE GAUGE FITTINGS.** A pressure gauge fitting with shutoff valve shall be provided on the cylinder side of the check valve or immediately adjacent to the hydraulic control valve.

(5) **TYPE TESTS, CERTIFICATION, AND MARKING PLATES FOR CONTROL VALVES.** (a) *Engineering tests and certification process.* Each type or model and make of hydraulic control valve shall be subjected to the engineering tests and to the certification process as specified in ASME A17.1 section 8.3.5, except ASME A17.1 section 8.3.5.3.1.

(b) *Hydraulic controls.* Hydraulic control valves shall be plainly marked in a permanent manner with all of the following information:

1. Certifying organization's name or identifying symbol.
2. The name, trademark, or file number by which the organization that manufactured the product can be identified.
3. Type designation.
4. Component-rated pressure.
5. Electrical coil data.

(6) **OVERSPEED VALVES.** When provided, overspeed valves and their connections and attachments shall conform to ASME A17.1 section 3.19.4.7.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1809 Wedge rope sockets.** These are department rules in addition to the requirements in ASME A18.1a section 9.8: When wedge rope sockets are provided, they shall conform to the requirements of ASME A17.1 section 2.20.9.5.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.

**Comm 18.1810 Routine, periodic, and acceptance inspections and tests.** (1) **GENERAL REQUIREMENTS.** (a) *Routine inspections and tests.* Substitute the following wording for the requirements in ASME A18.1a section 10.1.1 and 10.1.2.1: Inspectors performing routine and periodic inspections and tests for equipment covered under this subchapter shall comply with s. Comm 18.1015 (1), (2) (a), and (4) (b) and (c).

(b) *Acceptance inspections and tests.* Substitute the following wording for the requirements in ASME A18.1a section 10.1.3.1: Inspectors performing acceptance inspections and tests for equipment covered under this subchapter shall comply with s. Comm 18.1015 (1), (2) (b) and (c), and (4) (a).

(2) **INSPECTION AND TEST PERIODS.** Substitute the following wording for the requirements in ASME A18.1a section 10.2.1: The routine inspections and tests of ASME A18.1a sections 2 and 3 shall be made at intervals not longer than 1 year. Routine inspections and tests of ASME A18.1a section 4 shall be made at intervals not longer than 3 years.

**History:** CR 03-047: cr. Register March 2004 No. 579, eff. 4-1-04.