

SUPPLEMENT TO

Safety Code for Elevators, Dumbwaiters, Escalators and Moving Walks

Date of Issuance: September 15, 1974

ANSI A17.1c-1974

NEW DEFINITIONS:

Car Platform—Laminated. A self-supporting platform constructed of plywood with a bonded steel sheet facing on both top and bottom surfaces.

Car Platform Frame. A structural frame, composed of interconnecting members, which supports the car platform floor.

REFERENCE CODES, STANDARDS AND SPECIFICATIONS:

ANSI A2.2-1968 *change to* ANSI A2.2-1972 (ASTM E152-72)

ANSI C1-1968 (NFPA 70-1968) *change to* ANSI C1-1971 (NFPA 70-1971)

ANSI O4.3-1969 (ASTM 245-64T), *change to* ANSI O4.3-1969 (ASTM D245-68T)

AISC Specification for Design Fabrication and Erection of Structural Steel for Buildings. *Change date from* April 17, 1963 *to* 1970.

NFPA No. 13-1969 *change to* NFPA No. 13-1972

Under U.S. Department of Commerce, *add:*

PSI-66 Softwood Plywood, Construction and Industrial, (NBS Voluntary Product Standard) *and,*

Add

American Plywood Association, 1119 A Street, Tacoma, Washington 98401. Plywood Design Specification.

RULES

Rule 100.1b Fire-Resistance Ratings — *In the third paragraph, last line, change* ANSI A2.2-1968 (ASTM E152-66) *to* ANSI A2.2-1972 (ASTM E152-72).

Rule 102.1c Wiring Methods in Hoistways and Machine Rooms — *In first paragraph change* ANSI C1-1968 (NFPA 70-1968) *to* ANSI C1-1971 (NFPA 70-1971).

Add a new paragraph to read:

The wiring to the hoistway door interlocks from the main riser (See Rule 111.3) shall be NEC Type SF-2 or equivalent.

Rule 109.1 Hoistways Not Extending to the Lowest Floor of the Building — *Delete the period after Rule 109.1.*

Revise the first three lines to read: Where the space below the hoistway is not permanently secured against access, the following requirements shall be conformed to:

Rule 110.1 Entrances and Emergency Doors Required — *Revise sub-paragraph e to read:*

e It shall be provided with an electric contact conforming to Section 111.

Add a new sub-paragraph f

f It shall be unlocked from the landing side only through the use of a cylinder-type lock, having not less than a five (5) pin or five (5) disc combination. The cylinder lock shall:

1. Not be unlocked by any key which will open any other lock or device used for any purpose in the building.
2. Be so designed that the key shall be removable only in the locked position.

The key shall be kept where it is available only to authorized persons.

Rule 110.10a Landing-Sill Guards — *In the last line of sub-paragraphs 1 and 2 change the word soffit to top of door hanger pocket.*

Rule 111.3c Interlock Retiring Cam Device — *Add two sentences at the end of the second paragraph to read:* The rated horizontal force shall be the static force exerted by retiring cam device in the horizontal direction when extended a distance equal to seventy-five (75) percent of its rated horizontal movement. The rated horizontal movement shall be the horizontal distance traveled by the retiring cam device from the fully retired position to the fully extended position.

Rule 111.9 Access to Hoistway — *Change rule number 119a to 111.9a.*

Rule 203.5 Car Platforms — *Add an exception to read:*
EXCEPTION: Laminated platforms may be used for passenger elevators having a rated load of five thousand (5,000) pounds or less. The deflection at any point of a laminated platform when uniformly loaded to rated capacity, shall not exceed 1/960 of the span. The stresses in the steel facing shall not exceed one-fifth (1/5) of its ultimate strength and the stresses in the plywood core shall not exceed sixty (60) percent of the allowable stresses in Section 3.14 of the American Plywood Association Plywood Design Specification. Platform frames are not required where laminated platforms are provided.

Rule 203.6d Requirements for Wood for Platform Floors and Stringers — *Revise Rule to read:*

Wood used for platform stringers and platform floors and sub-floors shall be of structural quality lumber or exterior type plywood conforming to the requirements of the following specifications:

1. Structural Grades of Lumber—ANSI 04.3-1969 (ASTM D245-68T)
 2. Static Tests of Structural Timbers—ASTM D 198-67
 3. Softwood Plywood, Construction and Industrial (U.S. Department of Commerce NBS Voluntary Product Standard) PSI-66.
- Rule 203.8 Protection of Platforms Against Fire** — *Revise First sentence to read:* The underside of wood platforms, the exposed surfaces of wood platform stringers and edges of laminated platforms shall be protected against fire by one of the following methods;
- 204.5b Type Required** — *In the third line, delete the hyphen between the words car and entrance, place a period after the word entrance and delete the remainder of the sentence.*
- Rule 208.2 Material and Grooving for Sheaves and Drums** — *Revise item a to read:* Be of metal and provided with finished grooves for ropes. The grooves of sheaves not used to transmit power may be lined with non-metallic material. The grooves of sheaves used to transmit power may be lined with non-metallic material provided that in the event the lining should fail, there will be sufficient traction still available in the groove to safely stop and hold the car with one hundred and twenty-five (125) percent of the rated load.
- Rule 210.4 Requirements for Electrical Equipment and Wiring** — *Change ANSI C1-1968 (NFPA 70-1968) to ANSI C1-1971 (NFPA 70-1971)*
- Rule 210.7 Installation of Condensers or of Device to Make Electrical Protective Devices Inoperative** — *Revise title and text by changing word condensers to capacitors.*
- Rule 306.6 Requirements for Electrical Equipment and Wiring** — *Change ANSI C1-1968 (NFPA 70-1968) to ANSI C1-1971 (NFPA 70-1971)*
- Rule 306.7 Power Supply Line Disconnecting Means** — *In the second paragraph, change ANSI C1-1968 (NFPA 70-1968) to ANSI C1-1971 (NFPA 70-1971).*
- Rule 306.8 Installation of Condensers or Devices to Make Electrical Protective Devices Inoperative** — *Revise title and text by changing word condensers to capacitors.*
- Rule 401.3 Requirements for Electrical Wiring and Electrical Equipment** — *In item b, change ANSI C1-1968 (NFPA 70-1968) to ANSI C1-1971 (NFPA 70-1971).*
- Rule 500.5a Electric Wiring** — *Change ANSI C1-1968 (NFPA 70-1968) to ANSI C1-1971 (NFPA 70-1971)*
- Rule 502.15 Electric Wiring** — *Change ANSI C1-1968 (NFPA 70-1968) to ANSI C1-1971 (NFPA 70-1971)*
- Rule 700.1 Applicable Requirements** — *Rule 109.1 (page 195) Hoistways Not Extending to Lowest Floor of the Building. Revise text to*

read: This rule applies to all dumbwaiter cars and counterweights except for dumbwaiters having a rated load of twenty-five (25) pounds or less.

Rule 700.4.a *For Power Dumbwaiters — Delete item 4 and renumber items 5 and 6 as items 4 and 5 respectively.*

Rule 700.10b *For Hand Dumbwaiters — Delete item 2 — Gate Locks — and delete the number 1 preceding the title Door Latches.*

Rule 703.1 **Where Required** — *Revise text to read:* Car and counterweight safeties shall not be required except for protection of spaces below hoistways (See Rule 700.1 — Rule 109.1). Where required, the car and counterweight safeties may be operated as a result of breaking the suspension means and may be of the inertia type without governors. Car safeties may be located in the car crosshead.

Rule 709.1 **Where Required** — *Change title to Terminal Stopping Devices. Revise text to read:* Power dumbwaiters shall be provided with upper and lower normal terminal stopping devices located on the machine, on the car or in the hoistway or any combination thereof. Final terminal stopping devices shall not be required.

NOTE: The normal terminal stopping device may be used as a normal stopping means.

Rule 802.10 **Design Factors of Safety** — *In item a, change date of AISI Specification from 1963 to 1970.*

Rule 805.1c **Speed Governor** — *Revise the exception to read:*

EXCEPTION: The overspeed governor is not required where an alternating current squirrel cage induction motor is used and the motor is directly connected to the driving machine.

Rule 805.1 **General (Operating and Safety Devices)** — *Add following rule:*

Rule 805.1j **Reversal Stop Device.**

Means shall be provided to cause the opening of the power circuit to the driving-machine motor and brake in case of accidental reversal of travel while the escalator is operating in the ascending direction.

Rule 806.4 **Electrical Work** — *In item a change ANSI C1-1968 (NFPA 70-1968) to ANSI C1-1971 (NFPA 70-1971)*

Rule 900.6 **Pallet Type Treadway**

(1) *Delete paragraph b Clearance Between Pallets.*

(2) *Redesignate present paragraph c as paragraph b.*

(3) *Add a new paragraph c to read: c Intermeshing Pallets. Alternate cleats on adjacent pallets shall intermesh so that there is no continuous transverse gap between adjacent pallets.*

Rule 901.1d **Speed Governor** — *In exceptions (1) and (2), delete the words "low slip" in the first line.*

**Rule 901.2 Electrical Equipment and Wiring — In item b change ANSI
CI-1968 (NFPA 70-1968) to ANSI CI-1971 (NFPA 70-1971).**

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Page 306 — Change Condensers to Capacitors.
Page 335 — Add Transoms 110.17.