The American Society of Mechanical Engineers

ASME A17.1–2004
(Revision of ASME A17.1–2000)

SAFETY CODE FOR ELEVATORS AND ESCALATORS

Includes Requirements for Elevators, Escalators, Dumbwaiters, Moving Walks, Material Lifts, and Dumbwaiters With Automatic Transfer Devices

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This edition was approved by the American National Standards Institute on January 14, 2004. It was issued on April 30, 2004 and is effective as of October 31, 2004.

This edition of the Code is being issued with an automatic addenda subscription service. The use of an addenda allows revisions made in response to public review comments or committee actions to be published on a regular basis; revisions published in addenda will become effective six months after the Date of Issuance of the addenda unless noted otherwise within a given addenda. The next edition of this Code is scheduled for publication in 2007.

ASME issues written replies to inquiries concerning interpretations of technical aspects of this Code. The interpretations will be included with this edition and with each addenda. Interpretations are also published on the ASME Web site under the Committee Pages at http://www.asme.org/codes/ as they are issued.

The American Society of Mechanical Engineers
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CONTENTS

Figures

Tables

Nonmandatory Appendices

(04)

FOREWORD

The first edition of this Code was published in January 1921. It was prepared by an American Society of Mechanical Engineers (ASME) Committee on Protection of Industrial Workers with the assistance of representatives of a number of interests including manufacturers, insurance carriers, regulatory bodies, and technical societies.

Subsequently, ASME requested the American Engineering Standards Committee (AESC) to authorize the organization of a Sectional Committee to undertake this revision. They acted favorably on this request, and in January 1922, assigned sponsorship for the project jointly to the American Institute of Architects, the National Bureau of Standards, and ASME, all three of whom had taken an active part in the preparation of the first edition of the Code.

The organization meeting of the Sectional Committee A17 was held in November 1922. A number of meetings of the Committee were held during the next two years and in July 1925, a revision of the 1921 Code was completed, approved by the AESC, and published as an American Standard.

Subsequent to the publication of the 1925 revision of the Code, the necessity for development research on the design and construction of car safeties and oil buffers and for the development of test specifications for various parts of elevator equipment was realized.

As a result, a Subcommittee on Research, Recommendations, and Interpretations was appointed in 1926. This subcommittee held regular meetings thereafter until interrupted by the war in 1940, and carried on an extensive test program at the National Bureau of Standards in connection with oil buffers and car safeties. Subsequent to the war, the name of this subcommittee was changed to "Executive Committee for the Elevator Safety Code."

The information gained as a result of these tests, together with the developments that had occurred in the design of the equipment as a result of installations made in very tall buildings, prompted the Sectional Committee to prepare and issue the third edition of the Code in 1931. The third edition was approved by the Sectional Committee in February 1931, and subsequently by the sponsors and by the American Standards Association (formerly the AESC) in July 1931.

Further experience and developments in the design of elevator equipment, led the Sectional Committee, in line with its policy of revising the Code periodically, to prepare the fourth edition in 1937, which was approved by the sponsors and by the American Standards Association (ASA) in July 1937.

A fifth edition of the Code was well under way in 1940 when it was necessary to suspend the work due to the Second World War. However, a number of the revisions already agreed upon by the Sectional Committee and approved by the sponsors and by the ASA in April 1942, were issued as a supplement to the 1937 edition. They were subsequently incorporated in a reprint of the 1937 edition in 1945. In response to public demand, requirements for private residence elevators were also issued in a separate supplement, ASA A17.1.5–1953, and incorporated into the Code as Part V in the 1955 edition.

The Sectional Committee reinitiated consideration of the fifth edition of the Code in 1946. Due to the considerable period which had elapsed since the fourth revision in 1937, and to the very extensive developments in the elevator art, the committee decided that the Code should be completely rewritten and brought up to date.

Special subcommittees were appointed to prepare the revisions of the various requirements. The membership of each subcommittee consisted of persons especially familiar with the requirements to be covered by that subcommittee. Fifteen subcommittees were set up with a total membership of over 150 persons. The membership of these subcommittees was not confined to members of the Sectional Committee. It also included other persons having expert knowledge of the subjects under consideration by the subcommittees. These subcommittees and their personnel were listed in the 1955 edition of the Code.

The drafts prepared by these subcommittees were widely circulated to interested groups for comment. After review of the comments and correlation of the drafts, the fifth edition of the Code was approved by the Sectional Committee, subsequently by the sponsors, and by the ASA in June 1955.

In December 1957, a Supplement to the Code listing a number of revisions was approved by the ASA and published by ASME.

A sixth edition was published in 1960 which incorporated the revisions contained in the 1957 Supplement as well as approximately 96 revisions which were approved by the Sectional Committee in March 1960.

In 1958 the scope of the A17 Code was enlarged to include moving walks. The membership of the Sectional Committee was expanded to include manufacturers whose primary interest in the Committee was the development of rules and regulations on moving walks. A

subcommittee prepared a Safety Code for Moving Walks which was approved by the Sectional Committee, the sponsors, and by the ASA on March 20, 1962. This Code was published as Part XIII of the A17.1 Code, and was designated ASA A17.1.13–1962.

During 1962 and 1963, 38 additional changes to Parts I through XII of A17.1 were approved by the Sectional Committee, the sponsors, and the ASA, and were published as the 1963 Supplement to the 1960 edition of the Code.

A seventh edition was published in 1965 which incorporated the rules of the Safety Code for Moving Walks, ASA A17.1.13–1962, as Part XIII, the revisions covered by the 1963 Supplement as well as approximately 90 other revisions approved by the Sectional Committee, the sponsors, and the ASA. The title of the Code was also changed to the American Standard Safety Code for Elevators, Dumbwaiters, Escalators, and Moving Walks.

On August 24, 1966, the American Standards Association was reconstituted as the United States of America Standards Institute. The designation of standards approved as American Standards was changed to USA Standards. There was no change in the index identification or the technical content of the standards. At the same time, the ASA Sectional Committee, A17 on A Safety Code for Elevators, was changed to the USA Standards Committee, A17 on A Safety Code for Elevators. Four supplements to this edition were published from 1967 through 1970.

The United States of America Standards Institute later changed its name to American National Standards Institute, Incorporated (ANSI) on October 6, 1969. At the time that the new name became effective, the designation USA Standard was changed to American National Standard and the name of committees changed from USA Standards Committees to American National Standards Committees. The alphabetical designation of standard documents was changed from USA to ANSI.

The eighth edition of the Code (1971) incorporated the revisions covered by the four supplements and an additional 94 revisions. Seven supplements were issued from 1972 through 1976. Part XIV covering Material Lifts and Dumbwaiters with Automatic Transfer Devices was added in supplement ANSI A17.1d–1975.

The ninth edition of the Code (1978) incorporated 75 revisions in addition to those covered by the previous supplements. Part XV covering Special Purpose Personnel Elevators was added and the Reference Codes, Standards, and Specifications were moved from the Preface to a new Part XVI. Two supplements to this edition were issued in 1979 and 1980.

The tenth edition of the Code (1981) incorporated the revisions covered by Supplements ANSI A17.1a–1979 and ANSI A17.1b–1980, as well as the following new material: Part XVII, Inclined Elevators; Appendix F, Seismic Regulations; and Appendix G, Recommended Practice for Accelerating Moving Walks. Rule 211.3 and Part V were also completely revised, with the Private Residence Inclined Lifts moved to Part XVIII. Numerous other revisions and additions were also included which were approved since the time of the 1980 supplement.

The tenth edition of the Code was approved by the A17 Standards Committee. Since that time, the committee was reorganized in accordance with the ANSI Accredited Organization Method under the sponsorship of ASME. With this reorganization, the National Bureau of Standards and the American Institute of Architects relinquished their roles as cosecretariats. The Standards, Conference, and Executive Committees were also restructured as the Main Committee and the National Interest Review Committee, with the Working Committees (subcommittees) continuing to operate as before.

This reorganization also prompted a change in the title of the Code to the ANSI/ASME A17.1 Safety Code for Elevators and Escalators. The title was also shortened for convenience, and it should not be construed that the Code no longer covers dumbwaiters, moving walks, or the other equipment included within the Scope of the Code.

Two supplements to the 1981 edition were issued: ANSI/ASME A17.1a–1982 and ANSI/ASME A17.1b–1983. The 1982 supplement included a new Part XIX covering Elevators Used for Construction. In the 1983 supplement, the requirements for Private Residence Inclined Lifts in Part XVIII were expanded and incorporated into a new Part XXI covering Private Residence Inclined Stairway Chairlifts and Inclined and Vertical Wheelchair Lifts. Part XX was added to cover these same devices installed in buildings other than private residences. Requirements for Screw Column Elevators were also added and designated as Part XVIII.

The eleventh edition of the Code (1984) incorporated the changes made in the 1982 and 1983 supplements, as well as additional revisions.

The eleventh edition was updated with five supplements which were issued approximately every 6 months in 1985 through the spring of 1987. Appendix I (since redesignated as Appendix E) was added in ANSI/ASME A17.1a–1985. Requirements for rack and pinion elevators were added in ANSI/ASME A17.1c–1986, designated as Part XVI. The previous Part XVI (Reference Codes, Standards, and Specifications) was moved to Section 4 of the Introduction. In ANSI/ASME A17.1d–1986, the requirements for sidewalk elevators in Part IV, and alterations in Part XII, were completely revised.

The twelfth edition of the Code incorporated the changes made in supplements A17.1a–1985 through A17.1e–1987, as well as additional revisions. Among these changes was a complete revision of the requirements for dumbwaiters in Part VII. The format of the Code was also changed editorially to incorporate Exceptions into the body of the Rules.

The thirteenth edition of the Code incorporated the changes made in A17.1a–1988 and A17.1b–1989 as well

as additional revisions. Part XXII, Shipboard Elevators, was added in A17.1b–1989. Part XXIII, Rooftop Elevators, appeared for the first time in this edition.

The fourteenth edition of the Code incorporates the changes made in A17.1a–1991 and A17.1b–1992 as well as the revisions shown in the Summary of Changes. Safety requirements for seismic risk zone 3 and greater were moved from Appendix F into new Part XXIV, Elevator Safety Requirements for Seismic Risk Zone 2 or Greater. Requirements for seismic risk zone 2 were added to Part XXIV.

The fifteenth edition of the Code incorporates the changes made in A17.1a–1994 and A17.1b–1995 as well as the revisions shown in the Summary of Changes. Part XXV, Limited Use/Limited Application Elevators, was added in A17.1b–1995. The rules in Part III have been harmonized with the CAN/CSA B44, Elevator Safety Standard, Sections 4 and 11, and Appendix G4.

The sixteenth edition of the Code incorporates changes made in A17.1a–1997 through A17.1d–2000. Requirements for Mine Elevators have also been added in Section 5.9 of this edition. In addition, the entire Code was reformatted to incorporate a decimal numbering system. For this edition of the Code cross-reference tables have been provided in order to facilitate the correlation between requirements from the fifteenth edition of the Code to the renumbered requirements of the sixteenth edition and vice versa. It is also noted, that this edition of A17.1 was the result of a joint effort between the ASME A17 Elevator and Escalator Committee and the CSA B44 Technical Committee to harmonize requirements between the ASME A17.1, Safety Code for Elevators and Escalators, and the CSA B44, Safety Code for Elevators.

This seventeenth edition of the Code incorporates changes made in A17.1a–2002 and A17.1b–2003. Additionally, in Sections 8.10 and 8.11, cross-references have been updated to reflect ASME A17.2–2001, Guide for Inspection of Elevators, Escalators, and Moving Walks.

The following is a complete list of past editions and supplements to the Code that have been published and the dates when they received final approval. The dates of issuance are also included for the documents published since 1974, and the dates on which they became effective are included for those published since 1978.

Editions and Supplements		Approved	Issued	Effective
First Edition	1921	January 1921	...	...
Second Edition	A17–1925	April 1925	...	...
Third Edition	ASA A17–1931	July 1931	...	...
Fourth Edition	ASA A17.1–1937	July 1937	...	...
Supplements	ASA A17.3–1942	April 1942	...	...
	ASA A17.1.5–1953	June 9, 1953	...	...
Fifth Edition	ASA A17.1–1955	June 15, 1955	...	...
Supplements	ASA A17.1a–1957	December 10, 1957	...	...
Sixth Edition	ASA A17.1–1960	August 29, 1960	...	...
Supplements	ASA A17.1.13–1962	March 20, 1962	...	...
	ASA A17.1a–1963	August 16, 1963	...	...
Seventh Edition	ASA A17.1–1965	July 29, 1965	...	...
Supplements	USAS A17.1a–1967	July 7, 1967	...	...
	USAS A17.1b–1968	December 11, 1968	...	...
	USAS A17.1c–1969	May 6, 1969	...	...
	ANSI A17.1d–1970	March 2, 1970	...	...
Eighth Edition	ANSI A17.1–1971	July 27, 1971	...	...
Supplements	ANSI A17.1a–1972	February 16, 1972	...	...
	ANSI A17.1b–1973	October 11, 1973	...	...
	ANSI A17.1c–1974	April 26, 1974	September 15, 1974	...
	ANSI A17.1d–1975	February 26, 1975	October 31, 1975	...
	ANSI A17.1e–1975	March 26, 1975	October 31, 1975	...
	ANSI A17.1f–1975	April 2, 1975	October 31, 1975	...
	ANSI A17.1g–1976	August 12, 1976	November 30, 1976	...

Editions and Supplements		Approved	Issued	Effective
Ninth Edition	ANSI A17.1–1978	May 4, 1978	June 15, 1978	September 15, 1978
Supplements	ANSI A17.1a–1979	February 5, 1979	March 30, 1979	June 30, 1979
	ANSI A17.1b–1980	March 20, 1980	May 15, 1980	August 15, 1980
Tenth Edition	ANSI/ASME A17.1–1981	September 8, 1981	October 22, 1981	April 22, 1982
Supplements	ANSI/ASME A17.1a–1982	October 5, 1982	November 30, 1982	May 30, 1983
	ANSI/ASME A17.1b–1983	October 24, 1983	December 23, 1983	June 23, 1984
Eleventh Edition	ANSI/ASME A17.1–1984	August 16, 1984	September 16, 1984	March 16, 1985
Supplements	ANSI/ASME A17.1a–1985	February 27, 1985	April 15, 1985	October 15, 1985
	ANSI/ASME A17.1b–1985	August 6, 1985	October 15, 1985	April 15, 1986
	ANSI/ASME A17.1c–1986	March 5, 1986	April 30, 1986	October 31, 1986
	ANSI/ASME A17.1d–1986	September 8, 1986	November 30, 1986	May 31, 1987
	ANSI/ASME A17.1e–1987	February 18, 1987	April 30, 1987	October 30, 1987
Twelfth Edition	ASME/ANSI A17.1–1987	October 20, 1987	January 15, 1988	July 16,1988
Supplements	ASME/ANSI A17.1a–1988	October 6, 1988	November 15, 1988	May 16, 1989
	ASME/ANSI A17.1b–1989	November 10, 1989	November 30, 1989	May 31, 1989
Thirteenth Edition	ASME A17.1–1990	October 8, 1990	February 8, 1991	August 9, 1991
Supplements	ASME A17.1a–1991	October 21, 1991	February 28, 1992	August 29, 1992
	ASME A17.1b–1992	October 28, 1992	December 29, 1992	June 30, 1993
Fourteenth Edition	ASME A17.1–1993	October 18, 1993	December 31, 1993	July 1, 1994
Supplements	ASME A17.1a–1994	August 17, 1994	December 31, 1994	July 1, 1995
	ASME A17.1b–1995	October 5, 1995	January 31, 1996	August 1, 1996
Fifteenth Edition	ASME A17.1–1996	October 3, 1996	December 31, 1996	July 1, 1997
Supplements	ASME A17.1a–1997	January 8, 1998	February 27, 1998	August 28, 1998
	ASME A17.1b–1998	November 13, 1998	February 19, 1999	August 20, 1999
	ASME A17.1c–1999	May 13, 1999	June 30, 1999	December 31, 1999
	ASME A17.1d–2000	October 12, 2000	November 30, 2000	January 31, 2001
Sixteenth Edition	ASME A17.1–2000	October 16, 2000	March 23, 2001	March 23, 2002
Supplements	ASME A17.1a–2002	February 26, 2002	April 4, 2002	October 4, 2002
	ASME A17.1b–2003	April 10, 2003	May 30, 2003	November 30, 2003
Seventeenth Edition	ASME A17.1–2004	January 14, 2004	April 30, 2004	October 31, 2004

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(December 2003)

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(04)

PREFACE

GENERAL

This Code is one of the numerous codes and standards developed and published by The American Society of Mechanical Engineers (ASME) under the general auspices of the American National Standards Institute, Inc. (ANSI).

The Code is intended to serve as the basis for the design construction, installation, operation, testing, inspection, maintenance, alteration, and repair of elevators, dumbwaiters, escalators, moving walks, and material lifts.

Safety codes and standards are intended to enhance public health and safety. Revisions result from committee consideration of factors such as technological advances, new data, and changing environmental and industry needs. Revisions do not imply that previous editions were inadequate.

This Code applies to new installations only, except Part 1, and 5.10, 8.1, 8.6, 8.7, 8.8, 8.9, 8.10, and 8.11, which apply to both new and existing installations. Also, see ASME A17.3, Safety Code for Existing Elevators and Escalators, for further requirements.

The following conditions are not addressed in this Code:

(a) assignment of the responsibility for compliance to any particular party.

(b) establishment of a frequency for periodic inspections and tests. See Nonmandatory Appendix N for recommended inspections and test intervals.

(c) assignment of responsibility for persons authorized to make and witness inspections and tests.

APPLICATION OF REQUIREMENTS TO NEW TECHNOLOGY

Where present requirements are not applicable or do not describe new technology, the authority having jurisdiction should recognize the need for exercising latitude and granting exceptions where the product or system is equivalent in quality, strength or stability, fire resistance, effectiveness, durability, and safety to that intended by the present Code requirements.

FORM AND ARRANGEMENT

This Code consists of parts and sections, each covering a specific subject so as to facilitate reference to the requirements.

The Foreword, Preface, Notes, and Appendices that are included in this document, and the Interpretations that are provided as a separate booklet are not part of this American National Standard. They are advisory in nature and are intended for clarification only.

In this edition, the revisions that are appearing for the first time are identified by (04). Where editorial changes have been made, they are identified by (ED). See also Summary of Changes.

METRIC (SI) UNITS

This edition of the Code uses hard metric (SI) units wherever practical. The acceptable equivalent imperial units are shown in parentheses. Information on the usage of SI units and conversion to imperial units is contained in IEEE/ASTM SI 10-1997 Standard for the Use of the International System of Units (SI): The Modern Metric System, ASME Guide SI-1, Orientation and Guide for Use of SI (Metric) Units, or CAN/CSA-Z234.1, Canadian Metric Practice Guide.

Tables related to speed and load use the hard metric and hard imperial units in common practice, even though they are not exactly equivalent (e.g., see Table 2.22.4.1, Minimum Buffer Strokes). The tabular values have been derived using 8.2.1 formulas and the metric and imperial values for buffer strokes, safety stopping distances, etc., are therefore not equivalent.

ASME ELEVATOR PUBLICATIONS

The following ASME publications are of special interest to users of this Code. For prices and availability, contact:

ASME Order Department
22 Law Drive
Box 2300
Fairfield, NJ 07007-2300
Tel: 800-843-2763
Fax: 973-882-1717
E-Mail: infocentral@asme.org
ASME Website: www.asme.org/catalog

ASME A17.2, Guide for Inspection of Elevators, Escalators, and Moving Walks. This Guide gives detailed procedures for the inspection and testing of elevators, escalators, and moving walks required to conform to the Safety Code for Elevators and Escalators, A17.1–1955 and later editions and the Safety Code for Existing Elevators and Escalators, A17.3. Subsections are arranged to focus on routine and periodic inspection requirements, as well as acceptance criteria.

Abbreviations Used in This Code

Abbreviation	Unit	Abbreviation	Unit
A	Ampere	lb	pound (mass)
°C	degree Celsius	lbf	pound (force)
deg	degree (angle)	lx	lux
°F	degree Fahrenheit	m	meter
ft/min	foot per minute	m^2	square meter
ft/s	foot per second	m^3	cubic meter
ft	foot	mA	milliampere
fc	footcandle	m/s	meter per second
ft^2	square foot	m/s^2	meter per second per second
ft^3	cubic foot	mm	millimeter
ft/s^2	foot per second per second	mm^2	square millimeter
h	hour	mm^3	cubic millimeter
Hz	hertz	MPa	megapascal
in.	inch	N	Newton
$in.^2$	square inch	psi	pound per square inch
$in.^3$	cubic inch	s	second
kg	kilogram	V	volt
kPa	kilopascal		

Inspection Checklists. The checklist forms shown in A17.2 are published in convenient-size pads.

ASME A17.3 Safety Code for Existing Elevators and Escalators. This Code covers retroactive requirements for existing elevators and escalators. The purpose of this Code is to establish minimum requirements that will provide a reasonable degree of safety for the general public. While many of these requirements will also increase the degree of safety for the elevator mechanic and inspector, this area has not been specifically addressed at this time.

ASME A17 CD-ROM for Elevators and Escalators. This CD-ROM contains the ASME A17.1, A17.2, and A17.3 standards. In addition, it contains the published interpretations applicable to these standards.

ASME A17.4 Guide for Emergency Personnel. This guide for emergency personnel (fire, police, etc.), building owners, lessees, and building operating managers explains the proper procedures to be used for the safe removal of passengers from stalled cars.

CAN/CSA-B44.1/ASME A17.5 Elevator and Escalator Electrical Equipment. This Code contains requirements for obtaining, labeling, and listing of drive machine controllers, logic controllers, and operating devices for stating, stopping, regulating, controlling, or protecting electric motors, generators, and all other electrical equipment, for elevators, escalators, moving walks, dumbwaiters, wheelchair lifts, and stairway lifts.

Published Interpretations. Interpretations of the various A17 standards are published periodically.

Interpretations of A17.1 and A17.2 approved by the A17 Committee from June 14, 1972 through June 1979, were published in a separate book in 1980.

Starting with the 1981 edition of the Code, interpretations are published with each new edition and supplement of the applicable standard. A compilation of Interpretations Nos. 2-13 (June 1979–May 1989) has also been published by ASME. A compilation of all interpretations can also be obtained through the A17 CD-ROM.

Handbook on A17.1 Safety Code. This handbook augments the A17.1 Code with commentary, diagrams, and illustrations that are intended to explain the requirements of the A17.1 Code.

The commentary contained in the Handbook is the opinion of the author and has not been approved by the A17 Committee.

QEI-1 Standard for the Qualification of Elevator Inspectors. This Standard covers requirements for the qualification and duties of inspectors and inspection supervisors engaged in the inspection and testing of equipment within the scope of the A17.1 Code. It also includes requirements for the accreditation of organizations that certify inspectors and inspection supervisors as meeting the QEI criteria.

ASME A18.1 Safety Standard for Platform Lifts and Stairway Chairlifts. This safety Standard covers the design, construction, installation, operation, inspection, testing, maintenance, and repair of inclined stairway chairlifts and inclined and vertical platform lifts intended for transportation of a mobility impaired person only.

CORRESPONDENCE WITH A17 COMMITTEE

ASME codes and standards are developed and maintained with the intent to represent the consensus of concerned interests. As such, users of this and other ASME A17 codes and standards may interact with the committee by requesting interpretations, proposing revisions, and attending committee meetings. Correspondence should be addressed to:

Secretary, A17 Standards Committee
The American Society of Mechanical Engineers
Three Park Avenue
New York, NY 10016
E-mail: infocentral@asme.org

All correspondence to the Committee must include the individual's name and post office address in case the Committee needs to request further information.

Proposing Revisions. Revisions are made periodically to the Code to incorporate changes that appear necessary or desirable, as demonstrated by the experience gained from the application of the procedures, and in order to conform to developments in the elevator art. Approved revisions will be published periodically.

The Committee welcomes proposals for revisions to this Code. Such proposals should be as specific as possible: citing the Section number(s), the proposed wording, and a detailed description of the reasons for the proposal including any pertinent documentation.

Requesting Interpretations. On request, the A17 Committee will render an interpretation of any requirement of the Code. Interpretations can only be rendered in response to a written request sent to the Secretary of the Standards Committee.

The request for interpretation should be clear and unambiguous. It is further recommended that the inquirer submit his request utilizing the following format:

Subject: Cite the applicable Section number(s) and a concise description.

Edition: Cite the applicable edition and supplement of the Code for which the interpretation is being requested.

Question: Phrase the question as a request for an interpretation of a specific requirement suitable for general understanding and use, not as a request for an approval of a proprietary design or situation. The question shall be phrased, where possible, to permit a specific "yes" or "no" answer. The inquirer may also include any plans or drawings that are necessary to explain the question; however, they should not contain proprietary names or information.

Requests that are not in this format will be rewritten in this format by the Committee prior to being answered, which may inadvertently change the intent of the original request.

ASME procedures provide for reconsideration of any interpretation when or if additional information that might affect an interpretation is available. Further, persons aggrieved by an interpretation may appeal to the cognizant ASME committee or subcommittee. ASME does not "approve," "certify," "rate," or "endorse" any item, construction, proprietary device, or activity.

Attending Committee Meetings. The A17 Standards Committee and the various Working Committees regularly hold meetings all of which are open to the public. Persons wishing to attend any meeting should contact the Secretary of the Standards Committee.

ASME A17.1–2004
SUMMARY OF CHANGES

Following approval by the ASME A17 Elevator and Escalator Committee, and after public review, ASME A17.1–2004 was approved by the American National Standards Institute on January 14, 2004. It was issued on April 30, 2004, and is effective as of October 31, 2004.

ASME A17.1–2004 incorporates the revisions and editorial changes made in ASME A17.1a–2002 and ASME A17.1b–2003, as well as additional revisions and editorial changes. Revisions are identified by a margin note, **(04)**. Changes made to correct errors, as well as other new editorial changes, are identified by **(ED)**. Revision designators will remain on the pages up to the publication of the next edition of the Code. The **(ED)** designators will appear only when the editorial changes are introduced. The following is a summary of the latest revisions and changes:

Page	*Location*	*Change*
viii–xi	Foreword	Revised
xvi–xviii	Preface	Revised
1	1.1.3	Revised
	1.1.4	Revised
2–15	Section 1.3	(1) Definition of *door, folding*; *door, wrap-around*; *escalator skirt cover, dynamic*; and *skirt panel, dynamic* added (2) Definition of *escalator skirt* and *sleeving (liner)* revised
16	Part 2, Scope	Note added for editorial clarification
17	2.1.3.1.2(b)(2)	Last line editorially revised
18	2.2.2.2	Editorially revised
	2.2.3.1	Editorially revised
19	2.2.6	Editorially revised
	2.2.6.1	Editorially revised
20	2.3.4.2	Editorially revised
22	2.4.9(d)(1)	Revised
24	2.7.3.3.2	Second line editorially revised
25	2.7.4.3	Editorially revised
26	2.7.7.4	Last sentence added
28	2.9.3.2.2	Editorially revised
	2.9.3.3.3	Editorially revised
34	2.11.12.3	Second paragraph editorially revised
35	2.11.13.4	Revised
36	2.11.14.2	Revised
	2.11.15.1	Revised

Page	*Location*	*Change*
36	2.11.15.1.2	Editorially revised
37	2.11.18	Revised
38	2.12.2.4.4	Editorially revised
	2.12.2.5	Second paragraph editorially revised
39	2.12.3.4.4(a)	Editorially revised
40	2.12.7.3.3	Editorially revised
41	2.13.1	Editorially revised
	2.13.2.2.2	Editorially revised
	2.13.3.1.1	Editorially revised
42	2.13.3.4	Second paragraph editorially revised
44	2.14.1.5.1(d)	Editorially revised
46	2.14.2.1.2(a)	Last line editorially revised
	2.14.2.3.1(g)	Editorially revised
50	2.14.6.2.1	Editorially revised
51	2.15.2	Second paragraph editorially revised
52	2.15.6.1.4	Editorially revised
	2.15.6.2.3	Second paragraph editorially revised
	2.15.6.3	Editorially revised
	2.15.6.4	Title editorially revised
54	2.16.1.1	First paragraph editorially revised
58	2.16.7.6(b)	Editorially revised
59	2.17.3	Second paragraph editorially revised
	2.17.5.2	Editorially revised
60, 61	2.17.7.1	Second paragraph editorially revised
	2.17.8.1	Last paragraph editorially revised
63	2.18.2.1(b)	Editorially revised
64	2.18.3.3	Editorially revised
69	2.20.9.1(a)(2)	Editorially revised
	2.20.9.3.1	Editorially revised
71	2.20.9.5.6	Editorially revised
72	2.20.9.7.7	Editorially revised
73	2.20.10.8	Editorially revised
	2.21.1.3	Second paragraph editorially revised
76	2.22.4.7.2	Editorially revised
	2.22.4.8	Editorially revised
77	2.22.4.11(a)	Editorially revised
	2.23.2(b)	Editorially revised

Page	*Location*	*Change*
77, 78	2.23.4.1	Editorially revised
89	2.25.3.4	Second paragraph editorially revised
93	2.26.2.33	Added
	2.26.4.4	Revised
94	2.26.6	First line editorially revised
99	2.27.3.1.6(h)	Revised
100	2.27.3.2.6	Revised
101	2.27.3.3.1	(1) Subparagraphs (c) and (h) revised (2) Subparagraph (m) added
102	2.27.3.3.7	Added
	Fig. 2.27.3.3.7	Added
	2.27.3.3.8	Added
103	2.27.4.2	Last paragraph revised
106	Part 3, Scope	Note added for editorial clarification
108	3.6.1	Editorially revised
	3.7.1	First line editorially revised
110	3.17.3.1	Editorially revised
111	3.17.3.5(a)	Revised
113	3.18.3.7	Revised
114	3.18.4.2	Second line revised
	3.19.2.5	Added
118	3.25.2.2.4(b)	Editorially revised
119, 120	3.26.5	Editorially revised
	3.26.7	Editorially revised
122, 123	Section 4.1	Note added for editorial clarification
	4.1.2.3	Editorially revised
	4.1.9	Editorially revised
	4.1.14.1	Editorially revised
124	Section 4.2	Note added for editorial clarification
	4.2.2.1	Editorially revised
128, 129	Section 4.3	Note added for editorial clarification
	4.3.4	First paragraph editorially revised
	4.3.6.2	Second paragraph editorially revised
	4.3.8.1	Editorially revised
131	Section 5.1	Note added for editorial clarification
132	5.1.8.1	Editorially revised
	5.1.10.1	Editorially revised

Page	*Location*	*Change*
133	5.1.11.1.2(d)	Editorially revised
	5.1.12.2.6	Added
	5.1.13.1	Editorially revised
136	5.1.19.1	Editorially revised
137	Section 5.2	Note added for editorial clarification
139	5.2.1.12	Subparagraphs (a) and (e) revised
141–143	5.2.1.28	First paragraph editorially revised
	5.2.2	New 5.2.2.7 added and subsequent paragraphs redesignated
	5.3.1.1.3	Editorially revised
	5.3.1.1.4	Editorially revised
	5.3.1.7.4	Editorially revised
146	5.3.1.13.1(a)	Editorially revised
154–156	5.5.1.5	Second paragraph editorially revised
	5.5.1.11.3(d)	Editorially revised
	5.5.1.14.1(c)	Editorially revised
	5.5.1.15.2(a)	Editorially revised
	5.5.1.17	Second paragraph editorially revised
	5.5.1.23	Editorially revised
	5.5.1.25.2(d)	Editorially revised
157	Section 5.6	Note added for editorial clarification
159	5.6.1.14.1	Editorially revised
	5.6.1.15.2(a)	Editorially revised
	5.6.1.23	Editorially revised
161	Section 5.7	Note added for editorial clarification
162	5.7.8.3	First paragraph editorially revised
163–165	5.7.10.4	Editorially revised
	5.7.10.5	Editorially revised
	5.7.13.2	Editorially revised
	5.7.13.2.2(a)	Editorially revised
	5.7.15.3	Editorially revised
	5.7.16.2	Editorially revised
	5.7.17.1	Editorially revised
	5.7.18.2	Editorially revised
166	Section 5.8	Note added for editorial clarification
	5.8.1.1	Second sentence editorially revised
	5.8.1.2	Second sentence editorially revised

Page	*Location*	*Change*
167	Section 5.9	Editorially revised
168	5.9.4	Last line revised
169	5.9.14.1(b)	Revised
	5.9.14.4	Editorially revised
	5.9.15.1	Editorially revised
	5.9.17.2	Revised
	5.9.17.3	Revised
	5.9.17.5	Revised
170	Section 5.10	(1) Second paragraph editorially revised (2) Note added for editorial clarification
171, 172	5.10.1.7.2	Subparagraphs (b) and (d) editorially revised
174	5.10.1.20.1	Editorially revised
176–179	Part 6, Scope	Note added for editorial clarification
	6.1.3.3	(1) 6.1.3.3.1 and 6.1.3.3.4 revised in their entirety (2) New 6.1.3.3.7 and 6.1.3.3.8 added and subsequent paragraphs redesignated and revised
	6.1.3.3.13(d)	Editorially revised
	6.1.3.5.1	Revised in its entirety
	6.1.3.5.5	Last line revised
182	6.1.5.3.1(d)	Revised in its entirety
183	6.1.6.3.4	Revised
184	6.1.6.3.6	Title revised
	6.1.6.3.9	Revised
185	6.1.6.3.16	Added
	6.1.6.5	Revised
	6.1.6.10.1(b)	Revised
186, 187	6.1.6.11	Revised
188	6.1.7.4.3	Revised
	6.1.8.2	First paragraph editorially revised
189	6.2.3.3.7	Editorially revised
	6.2.3.3.8(d)	Editorially revised
190	6.2.3.5.1	Editorially revised
	6.2.3.6.2	Editorially revised
194, 195	6.2.6.3.4	Revised
197	6.2.6.14	Editorially revised
	6.2.7.4.3	Revised

Page	*Location*	*Change*
198	6.2.8.2	First paragraph editorially revised
199	Part 7, Scope	Note added for editorial clarification
201, 202	7.1.11.12.3	Editorially revised
209	7.3.4.2	Editorially revised
214	7.5.1.2.1	Revised
219	7.6.4.1	Editorially revised
221	7.9.2.7	Revised
223–225	Section 8.2	Editorially revised
	8.2.1.2	(1) Editorially revised (2) Figures 8.2.1.2-1 and 8.2.1.2-2 editorially redesignated as Fig. 8.2.1.2
228–237	8.2.5	(1) Editorially revised (2) Figures 8.2.5-1 and 8.2.5-2 redesignated as Fig. 8.2.5
	8.2.6	(1) Editorially revised (2) Figures 8.2.6-1 through 8.2.6-3 redesignated as Fig. 8.2.6
	8.2.8.1.1	(1) Note and subpara. (c) editorially revised (2) Figures 8.2.8.1.1-1 and 8.2.8.1.1-2 redesignated as Fig. 8.2.8.1.1
242	8.3.2.3.3	Subparagraphs (a) and (b) editorially revised
243	8.3.2.5.2(a)(1)	Editorially revised
247	8.3.6.3	Editorially revised
	8.3.7	Editorially revised
	8.3.7.1	Editorially revised
	8.3.7.2	Editorially revised
249–251	8.4.3.1.4	First paragraph editorially revised
	8.4.4.1.1	Last paragraph editorially revised
	8.4.7.1.2	Editorially revised
	8.4.7.1.3	First paragraph editorially revised
	8.4.8.2.1	Editorially revised
	8.4.8.2.3	Editorially revised
260	8.4.8.6.2	Editorially revised
262	8.4.10.1.1(b)	Editorially revised
264	8.4.10.1.3	Subparagraphs (f) and (h) editorially revised
266	8.4.11.6	Editorially revised
269	8.5.2.1.1	Editorially revised
	8.5.1.2.3	Editorially revised

Page	*Location*	*Change*
271	8.6.1.6.5	Revised
272	8.6.2	Editorially revised
273	8.6.3.7	Revised in its entirety
278	8.6.8.3.3	Editorially revised
	8.6.8.5	Revised
279	8.6.10.5(d)	Revised
281, 282	8.7.2.10.2	Second line revised
	8.7.2.10.3	Second line revised
	8.7.2.10.4	Second line revised
	8.7.2.10.5(b)	Editorially revised
	8.7.2.11.3(c)	Editorially revised
283	8.7.2.16.1	Editorially revised
286	8.7.2.27.3	First paragraph editorially revised
293–317	8.8.2	Editorially revised
	Section 8.10	Cross-references updated to reflect A17.2–2001
	Section 8.11	Cross-references updated to reflect A17.2–2001
	8.11.4.1(h)	Revised
323	Section 9.1	Editorially revised
325, 326	Section 9.2	Editorially revised
341	Fig. I-3	Revised
342	Fig. I-4	Title revised
343	Fig. I-8	Callouts revised
357	Nonmandatory Appendix P	Added

SPECIAL NOTE:

The interpretations to ASME A17.1 issued between July 2002 through June 2003 follow the last page of this edition as a separate supplement, Interpretation No. 26.

SAFETY CODE FOR ELEVATORS AND ESCALATORS

Part 1
General

SECTION 1.1
SCOPE

1.1.1 Equipment Covered by This Code

This Code covers the design, construction, operation, inspection, testing, maintenance, alteration, and repair of the following equipment, its associated parts, and its hoistways, where located in or adjacent to a building or structure (except as modified by 1.2):

(a) hoisting and lowering mechanisms, equipped with a car or platform, which move between two or more landings. This equipment includes, but is not limited to elevators (see 1.3).

(b) power-driven stairways and walkways for carrying persons between landings. This equipment includes, but is not limited to escalators and moving walks (see 1.3).

(c) hoisting and lowering mechanisms equipped with a car that serves two or more landings and is restricted to the carrying of material by its limited size or limited access to the car. This equipment includes, but is not limited to dumbwaiters and material lifts (see 1.3).

1.1.2 Equipment Not Covered by This Code

Equipment not covered by this Code includes, but is not limited to, the following:

(a) personnel hoists within the scope of ANSI A10.4 and CSA-Z185

(b) material hoists within the scope of ANSI A10.5 and CSA-Z256

(c) platform lifts and stairway chairlifts within the scope of ASME A18.1, CSA B355, and CSA B613

(d) manlifts within the scope of ASME A90.1 and CSA B311

(e) mobile scaffolds, towers, and platforms within the scope of ANSI A92 and CSA-B354

(f) powered platform and equipment for exterior and interior building maintenance within the scope of ASME A120.1 and CSA-Z271

(g) conveyors and related equipment within the scope of ASME B20.1

(h) cranes, derricks, hoists, hooks, jacks, and slings within the scope of ASME B30, CSA Z150, CSA B167, CSA Z202, and CSA Z248

(i) industrial trucks within the scope of ASME B56 and CSA B335

(j) portable equipment, except for portable escalators, which are covered by 6.1

(k) tiering or piling machines used to move material to and from storage located and operating entirely within one story

(l) equipment for feeding or positioning material at machine tools, printing presses, etc.

(m) skip or furnace hoists

(n) wharf ramps

(o) amusement devices

(p) stage and orchestra lifts

(q) lift bridges

(r) railroad car lifts and dumpers

(s) mechanized parking garage equipment

(t) line jacks, false cars, shafters, moving platforms, and similar equipment used for installing an elevator

(u) platform elevators installed in a ship or offshore drilling rig and used for the purpose of loading and unloading cargo, equipment, and personnel

(v) dock levelers (freight platform lifts) having a travel of 500 mm (12 in.) or less

(w) in Canadian jurisdictions, devices having a travel of 2 000 mm (79 in.) or less and used only for the transfer of materials or equipment

1.1.3 Application of Parts (04)

This Code applies to new installations only, except Part 1, and 5.10, 8.1, 8.6, 8.7, 8.8, 8.9, 8.10, and 8.11, which apply to both new and existing installations.

1.1.4 Effective Date (04)

The requirements of this edition and subsequent addenda to the Code are effective as of the date noted on the copyright page of this document. The authority having jurisdiction will establish the effective date for their local regulations.