
**Lifts for the transport of persons and
goods —**

Part 3:

**Requirements from other Standards
(ASME A17.1/CSA B44 and JIS A 4307-
1/JIS A 4307-2) not included in ISO
8100-1 or ISO 8100-2**

Elévateurs pour le transport de personnes et d'objets —

*Partie 3: Exigences d'autres normes (ASME A17.1/CSA B44 and JIS A
4307-1/JIS A 4307-2) non incluses dans l'ISO 8100-1 ou l'ISO 8100-2*

ISO/TS 8100-3:2019

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 178, *Lifts, escalators, passenger conveyors*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This document is intended to be used in combination with ISO 8100-1 and ISO 8100-2.

A list of all parts in the ISO 8100 series can be found on the ISO website.

Introduction

The elevator industry has become increasingly international in nature resulting in the rationalization of many local standards and their harmonization with international Standards. ISO 8100-1 and ISO 8100-2 address the requirements in many parts of the world. However, there are standards applicable in regions of the world such as North America and Japan that have differences in specific prescriptive requirements from those in ISO 8100-1 and ISO 8100-2.

This document needs to be used in combination with ISO 8100-1 and ISO 8100-2 for the purpose of achieving equivalency with the requirements of ASME A17.1/CSA B44 and JIS A 4307-1/JIS A 4307-2 respectively, where the scopes of ASME A17.1/CSA B44 and JIS A 4307-1/JIS A 4307-2 coincide with the scope of ISO 8100-1 and ISO 8100-2. Equipment outside of the scope of ISO 8100-1 and ISO 8100-2 is not addressed in this document. While the scope of ISO 8100-1 and ISO 8100-2 addresses electric as well as hydraulic lifts, this document only addresses electric lifts (except home lifts). Future editions of this document will address hydraulic lifts, home lifts, as well as, electric lifts.

This document identifies section and requirement numbers from ASME A17.1/CSA B44 or JIS A 4307-1/JIS A 4307-2 for requirements to be used in addition to, or in place of, specific clauses in ISO 8100-1 and ISO 8100-2. The content of the specific requirements is published in ASME A17.1/CSA B44 and JIS A 4307-1/JIS A 4307-2.

This document is not a substitute for ASME A17.1/CSA B44 or the Building Standard Law of Japan (BSLJ) or JIS A 4307-1/JIS A 4307-2 and it does not evaluate or interpret requirements in those standards. It is the responsibility of the user to comply with the actual requirements in force in the particular jurisdictions.

As a further clarification, it is emphasized that, although differences exist in the various standards, it does not imply that any standard is superior to another standard covering the same scope.

In the future, the intention is to reduce differences in a gradual manner. In this context the tables in Clause 4 will serve as a summary of areas of difference for the convergence process.

The ISO 8100-2X series provides a performance-based approach for safety requirements of lifts. ISO 8100-1 and ISO 8100-2 provide detailed prescriptive safety requirements for lifts, which can assist with the application of the ISO 8100-2X series, especially ISO 8100-20.

Lifts for the transport of persons and goods —

Part 3:

Requirements from other Standards (ASME A17.1/CSA B44 and JIS A 4307-1/JIS A 4307-2) not included in ISO 8100-1 or ISO 8100-2

1 Scope

1.1 This document specifies the safety rules for permanently installed new passenger or goods passenger lifts, with traction, positive or hydraulic drive, serving defined landing levels, having a car designed for the transportation of persons or persons and goods, suspended by ropes, chains or jacks and moving between guide rails inclined not more than 15° to the vertical.

1.2 This document covers the machinery described in 1.1 and the hazards, hazardous situations and hazardous events related to their use.

NOTE Supplementary requirements can apply in special cases (use of lifts by persons with disabilities, in case of fire, potentially explosive atmosphere, extreme climate conditions, seismic conditions, transporting dangerous goods, etc.).

1.3 This document does not cover:

a) lifts with:

- 1) drive systems other than those stated in 1.1;
- 2) rated speed $\leq 0,15$ m/s;

b) hydraulic lifts:

- 1) with a rated speed exceeding 1 m/s;
- 2) where the setting of the pressure relief valve (5.9.3.5.3) exceeds 50 MPa;

c) new passenger or goods passenger lifts in existing buildings¹⁾ where, in some circumstances, some requirements of ISO 8100-1 cannot be met due to limitations enforced by building constraints and local requirements, e.g. EN 81-21, should be considered;

d) lifting appliances, such as paternosters, mine lifts, theatrical lifts, appliances with automatic caging, skips, lifts and hoists for building and public works sites, ships' hoists, platforms for exploration or drilling at sea, construction and maintenance appliances or lifts in wind turbines;

e) important modifications (see Annex C) to a lift installed before this document is brought into application;

f) safety during operations of transport, erection, repairs, and dismantling of lifts.

However, this document can usefully be taken as a basis.

1) Existing building is a building which is used or was already used before the order for the lift was placed. A building whose internal structure is completely renewed is considered as a new building.

Noise and vibrations are not dealt with in this document as they are not found at levels which can be considered as harmful with regard to the safe use and maintenance of the lift.

1.4 This document is not applicable to passenger and goods passenger lifts, which are installed before the date of its publication.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ASME A17.1-2013/CSA B44-13, *Safety Code for Elevators and Escalators*

JIS A 4307-1, *Lifts for the transport of persons and goods — Part 1: Passenger and goods passenger lifts*

JIS A 4307-2, *Lifts for the transport of persons and goods — Part 2: Design rules, calculations, examinations and tests of lift components*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Use of this document

Products designed in compliance with specific requirements of ISO 8100-1 and ISO 8100-2 may not be in compliance with specific prescriptive requirements in ASME A17.1-2013/CSA B44-13 or the Building Standard Law of Japan (BSLJ) or JIS A 4307-1 and JIS A 4307-2. JIS A 4307-1 and JIS A 4307-2 are the standards incorporating the requirements of BSLJ into ISO 8100-1 and ISO 8100-2.

Specific prescriptive requirements of ASME A17.1-2013/CSA B44-13 that shall be addressed in addition to, or in place of, requirements of ISO 8100-1 and ISO 8100-2 can be identified by referring to [Tables 1](#) and [2](#),

In a similar way, [Tables 3](#) and [4](#) identify requirements in JIS A 4307-1/JIS A 4307-2 that shall be addressed.

[Tables 1](#) to [4](#) provide guidance and, in all cases, the relevant standards need to be consulted.

In each table, there are five columns as follows:

- a) Column 1 identifies the clause number in ISO 8100-1 and ISO 8100-2;
- b) Column 2 describes the subject matter;
- c) Column 3 identifies the requirement to be addressed in addition to ISO 8100-1 and ISO 8100-2;
- d) Column 4 identifies the requirement to be addressed in place of ISO 8100-1 and ISO 8100-2; and
- e) Column 5 contains comments and explanations intended to provide guidance to the user.

NOTE Throughout this document, the term lift is used, as it is the term used in ISO 8100-1 and ISO 8100-2. In the last column of [Tables 1](#) to [4](#), the term elevator is used as that is the term used in ASME A17.1/CSA B44 and the BSLJ.

Table 1 — ASME A17.1/CSA B44 requirements to be used in addition to or in place of requirements in ISO 8100-1

1	2	3	4	5
Subclause in ISO 8100-1	Subject	A17.1/B44 section or requirement number to be used in addition to the subclause in ISO 8100-1	A17.1/B44 section or requirement number to be used in place of the subclause in ISO 8100-1	Comments
0.3.6	Passenger weight		Appendix D	A17.1/B44 assumes passenger weight different from that indicated in ISO 8100-1
5.2.1.1.1	Arrangement of lift equipment	2.7.6.3		A17.1/B44 requires different parts of elevator equipment to be located in specific spaces or rooms.
5.2.1.1.2	Equipment identification	2.29.1		A17.1/B44 has additional specific requirements for equipment and component marking.
5.2.1.2.1	Use of the well, machine and pulley rooms	2.8		A17.1/B44 has additional specific requirements for equipment; permitted in the hoistway.
5.2.1.3	Ventilation	2.7.9.2 2.8.5		A17.1/B44 requires equipment manufacturer to specify and post temperature and humidity requirements. ISO 8100-1:2019, 0.4.2, 0.4.5 and 0.4.16, 0 and E.3 also pertain to ventilation.
5.2.1.4.1 b)	Pit lighting		2.2.5	A17.1/B44 requires different illumination level.
5.2.1.5.1	Electric equipment in pit		2.2.6	A17.1/B44 broadly addresses the same safety issues. Some specific requirements differ.
5.2.1.5.2	Electric equipment in machinery spaces and pulley rooms		2.7.3.5 2.26.2.4 NFPA 70 CSA C22.1	A17.1/B44 requires stop switches conforming to specific Standards.
5.2.1.8.1	Strength of walls, floors and ceilings		2.1.1 2.1.2 2.1.3	A17.1/B44 has specific constructional conditions and differing loading requirements.
5.2.1.8.2	Walls of the well	2.1.1.1 2.1.1.2 2.1.1.3 2.1.1.5		A17.1/B44 has specific constructional conditions and differing loading requirements. Building codes have additional requirements.
5.2.1.8.3	Glass enclosures		2.1.1.2.2(e) ANSI Z97.1 16 CFR Part 1201 CAN/GGSSB-12.1-M90	A17.1/B44 references other Standards for glass enclosure requirements.
5.2.1.8.4 5.2.1.8.5 5.2.1.8.6	Pit floor strength		2.1.2.3	A17.1/B44 has different requirements for calculating loads.
5.2.1.9	Surfaces	2.2.2		A17.1/B44 has additional requirements for pit sump pumps.

Table 1 (continued)

1	2	3	4	5
Subclause in ISO 8100-1	Subject	A17.1/B44 section or requirement number to be used in addition to the subclause in ISO 8100-1	A17.1/B44 section or requirement number to be used in place of the subclause in ISO 8100-1	Comments
5.2.2	Access to well and to machinery spaces and pulley rooms		2.7.2, 2.7.3	A17.1/B44 contains differing requirements for accessing various rooms and spaces.
5.2.2.4	Pit access		2.2.4	A17.1/B44 contains differing requirements for pit access and ladders. ISO 8100-1:2019, Annex F includes specific requirements for pit ladders.
5.2.2.5	Access to machinery spaces and pulley rooms		2.7.3.3	A17.1/B44 contains differing requirements for access by stairs and ladders.
5.2.3	Access and emergency doors		2.7.3.4 2.11.1.2 2.11.1.3 2.11.1.4 2.14.1.10 8.1	A17.1/B44 contains differing requirements for access door sizes and security. Side exits are not permitted by A17.1/B44.
5.2.5.2.1	Well enclosure		2.1.1.1 2.1.1.2 2.1.1.3	Hoistway enclosures are subject to building code requirements or differing A17.1/B44 requirements for enclosed and non-enclosed hoistways.
5.2.5.2.2.1	Enclosed wells		2.1.1.1 2.1.1.2	A17.1/B44 contains additional requirements for fully enclosed wells.
5.2.5.2.2.2	Well projections		2.1.6	A17.1/B44 contains differing requirements for projections and recesses.
5.2.5.2.3	Partially enclosed wells		2.1.1.3	A17.1/B44 contains differing requirements for enclosure height and construction.
5.2.5.3.1	Clearances between cars and well enclosures		2.5.1.1 2.5.1.4 2.5.1.5 2.5.1.6 2.5.1.7	A17.1/B44 specifies different clearances between cars and well enclosures for various conditions.
5.2.5.4	Protection of space below well	2.6.1, 2.6.2		A17.1/B44 has additional requirements relating to protection of space below well.
5.2.5.5.1	Counterweight guarding		2.3.2	A17.1/B44 has differing requirements for counterweight guarding.
5.2.5.5.2	Well guarding		2.3.2.3 2.3.3 2.3.4	A17.1/B44 requires guarding of counterweights only and also permits remote counterweight hoistways and separate runways.

Table 1 (continued)

1	2	3	4	5
Subclause in ISO 8100-1	Subject	A17.1/B44 section or requirement number to be used in addition to the subclause in ISO 8100-1	A17.1/B44 section or requirement number to be used in place of the subclause in ISO 8100-1	Comments
5.2.5.6	Extreme positions of car and counterweight		2.4.2 2.4.3 2.4.4 2.4.5 2.4.6 2.4.8 2.4.9	A17.1/B44 specifies differing runbys and maximum upward movements under various conditions and equipment types as well as a counterweight runby data plate.
5.2.5.7	Top of car clearances and refuge space		2.4.7, 2.14.1.6.2, Appendix G	A17.1/B44 requires clearance over the entire car top (within railing) so there is no specified refuge space.
5.2.5.8	Bottom clearances and pit refuge space		2.4.1	A17.1/B44 specifies differing clearances underneath various pieces of equipment and only two refuge space sizes.
5.2.6.1	General		2.7.6.6, 2.7.9.2	Equipment is not to be exposed to the weather. Temperature and humidity is to be as specified by the manufacturer. See also ISO 8100-1 Clauses 0.3.3, 0.4.2 and 0.4.5.
5.2.6.2.1	Notices and instructions	2.29		In A17.1/B44 additional marking of switches is required to identify each elevator in buildings with more than one elevator.
5.2.6.2.2 5.2.1.1.2	Notices and instructions		NFPA 70, CSA C22.1	Markings on disconnect switches are addressed by NFPA 70 and CSA C22.1.
5.2.6.2.3	Notices and instructions		8.6.1.2.2 (d) (1)	A17.1/B44 specifies evacuation procedures to be available on site.
5.2.6.3.2	Dimensions		2.7.1.3 2.7.2 2.7.3 2.7.4	A17.1/B44 specifies differing access requirements to machine rooms and machinery spaces, maintenance clearances to equipment in the rooms and spaces and headroom. In addition, clearances around controller cabinets are specified in the electrical code.
5.2.6.3.3	Other openings		2.1.3	A17.1/B44 permits concrete or metal floors with differing specified perforations.
5.2.6.4.1.2	Clear height in well		2.7.4.5 (a)	A17.1/B44 specifies safe and convenient access to be compliant with NFPA 70 or CSA C22.1.
5.2.6.4.1.3	Necessary instructions for operation		2.7.5.2.1(b)(4)	A17.1/B44 specifies signage and instructions for various working area access and safety devices.

Table 1 (continued)

1	2	3	4	5
Subclause in ISO 8100-1	Subject	A17.1/B44 section or requirement number to be used in addition to the subclause in ISO 8100-1	A17.1/B44 section or requirement number to be used in place of the subclause in ISO 8100-1	Comments
5.2.6.4.2	Dimensions of working areas inside the well		2.7.4.2 2.7.4.3 2.7.4.5	A17.1/B44 specifies differing access and headroom requirements in various work spaces. In addition, clearances around controller cabinets are specified in the electrical code.
5.2.6.4.3	Working areas in the car or on the car roof		2.7.5.1	A17.1/B44 specifies differing requirements for working areas in the car or on the car top.
5.2.6.4.3.1	Prevent dangerous movement of the car		2.7.5.1.1 2.7.5.1.2 2.7.5.1.3	A17.1/B44 specifies differing requirements for a means to prevent unexpected vertical car movement.
5.2.6.4.3.2	Devices for emergency operation and for dynamic tests	2.7.6.4 2.7.6.5		A17.1/B44 specifies additional requirements for means necessary for tests and for the inspection and test panel.
5.2.6.4.3.3	Inspection doors in the car		2.7.5.1.4	A17.1/B44 specifies requirements for equipment access panels in the car.
5.2.6.4.3.4	In-car inspection control station		2.26.1.4	A17.1/B44 specifies differing requirements for in-car inspection operation.
5.2.6.4.4	Working areas in the pit		2.7.5.2 2.26.1.4	A17.1/B44 specifies differing requirements for working areas in the pit and pit inspection operation.
5.2.6.4.4.3	Devices for emergency operation and for dynamic tests	2.7.6.4 2.7.6.5		A17.1/B44 specifies additional requirements for means necessary for tests and for the inspection and test panel.
5.2.6.4.5	Working areas on a platform	2.7.5.3 2.7.5.4 2.7.5.5 2.26.1.4		A17.1/B44 specifies additional requirements for working platforms, and working areas on a platform.
5.2.6.4.6	Working areas outside of the well	2.7.3.4 2.7.4.4 2.7.6.3.4		A17.1/B44 specifies additional requirements for working areas outside of the hoistway.
5.2.6.5.1	Machinery cabinet	2.7.6.3.2 2.7.7 2.7.8		A17.1/B44 specifies additional requirements for motor controllers located in a locked cabinet, machine rooms and control rooms underneath the hoistway and remote machine rooms and control rooms.
5.2.6.5.2	Working area		NFPA 70, CSA C22.1	Clearances around controller cabinets are specified in the electrical codes (i.e. NFPA 70, CSA C22.1)

Table 1 (continued)

1	2	3	4	5
Subclause in ISO 8100-1	Subject	A17.1/B44 section or requirement number to be used in addition to the subclause in ISO 8100-1	A17.1/B44 section or requirement number to be used in place of the subclause in ISO 8100-1	Comments
5.2.6.6	Devices for emergency and test operations	2.7.6.4 2.7.6.5		A17.1/B44 specifies additional requirements for means necessary for tests and for the inspection and test panel.
5.2.6.7.1	Construction and equipment of pulley rooms dimensions		2.7.2 2.7.4.1 2.7.4.4 2.7.4.6	A17.1/B44 specifies differing requirements for maintenance path and clearance to equipment and headroom in machinery spaces, machine rooms, control spaces, and control rooms.
5.2.6.7.2	Openings		2.1.3	A17.1/B44 permits concrete or metal floors with differing specified perforations.
5.3.2.1	Height of entrance		2.11.1	A17.1/B44 has differing requirements.
5.3.3.2	Guides		2.11.11	A17.1/B44 has differing requirements.
5.3.3.3	Suspension of vertically sliding doors		2.11.12	A17.1/B44 has differing requirements.
5.3.4 5.3.4.1 5.3.4.2	Horizontal door clearances		2.5.1.4 2.14.4.5.1	A17.1/B44 has differing requirements.
5.3.5	Strength of landing and car doors		2.14.4.6 2.11.11.5.7	A17.1/B44 has differing requirements.
5.3.5.2	Behaviour under fire conditions		2.11.14 8.3.4	A17.1/B44 has differing requirements.
5.3.5.3	Mechanical strength		2.11.11.5.7	A17.1/B44 has differing requirements.
5.3.5.3.2	Retainers		2.11.11.8	A17.1/B44 has differing requirements.
5.3.6.2.2	Horizontally sliding doors		2.13.4.2.1	A17.1/B44 has differing requirements.
5.3.6.2.2.1	Automatic power operated doors		2.13.4.2.1	A17.1/B44 has differing requirements.
5.3.6.2.2.1 a)	Kinetic energy	2.13.4.2.1 (b) (1)	2.13.4.2.1 (a)	A17.1/B44 has additional requirements.
5.3.6.2.2.1 b) 3)	De-activation of door protective device.		ICC/ANSI A117.1	A17.1/B44 has differing requirements.
5.3.6.2.2.1 b) 4)	Failure or deactivation of door protective device	2.13.4.2.1 (c) (1)	2.13.4.2.1 (c)	A17.1/B44 has differing requirements.
5.3.6.2.2.1 c)	Force required to prevent door closing		2.13.4.2.3	A17.1/B44 has differing requirements.
5.3.6.2.2.1 g)	Labyrinths or chicanes and Glass doors		2.11.11.5.3 2.14.5.9	In A17.1/B44 glass car doors are addressed by requirement 2.14.5.9.1.

Table 1 (continued)

1	2	3	4	5
Subclause in ISO 8100-1	Subject	A17.1/B44 section or requirement number to be used in addition to the subclause in ISO 8100-1	A17.1/B44 section or requirement number to be used in place of the subclause in ISO 8100-1	Comments
5.3.6.2.2.2	Non-automatic power operated doors (continuous pressure)		2.13.3.2	A17.1/B44 has differing requirements.
5.3.6.2.2.3	Vertically sliding doors	2.13.3.4		A17.1/B44 has additional requirements.
5.3.7.1	Local landing lighting		2.11.10.2	A17.1/B44 has differing requirements.
5.3.7.2	"Car here " indication		2.11.7.1	A17.1/B44 has differing requirements.
5.3.8.	Locking and closed landing door check	2.12.2		A17.1/B44 has differing requirements.
5.3.9.1.7	Interlock strength		2.12.2.4.1	A17.1/B44 has differing requirements.
5.3.9.3	Emergency unlocking		2.12.6	A17.1/B44 has differing requirements.
5.3.9.3.5	Distances to pit ladder		2.2.4.6	A17.1/B44 has differing requirements.
5.3.9.4	Electric safety device for proving landing door closed		2.12.2	A17.1/B44 has differing requirements.
5.3.10	Proving the locked condition and closed condition of landing door		2.12.2	A17.1/B44 has differing requirements.
5.3.11	Sliding landing door with multiple, mechanically linked panels		2.12.2.4.4	A17.1/B44 has differing requirements. Folding doors not permitted by A17.1/B44.
5.3.15	Opening car door		2.14.5.7	A17.1/B44 has differing requirements.
5.4.1	Car height		2.14.2.4	A17.1/B44 has differing requirements.
5.4.2.1	Car area		2.16.1	A17.1/B44 has differing requirements.
5.4.2.3	Number of passengers		Appendix D	A17.1/B44 has differing requirements.
5.4.2.3.2	In-car data		2.16.3	A17.1/B44 Requires an additional data plate.
5.4.3.2.1	Level of car on safety application		2.17.8.2.6 2.17.9.2	A17.1/B44 has differing requirements limiting the degree to which the car platform can be out of level after application of the safeties.
5.4.3.2.4	Glass panels in car		2.14.1.8	A17.1/B44 has differing requirements.
5.4.3.2.5	Glass markings		2.14.1.8	A17.1/B44 has differing requirements.
5.4.3.3	Glass walls below 1,1 m.		2.14.1.8.1	A17.1/B44 has differing requirements.