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Technical
Report

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Lifts and escalators subject to seismic conditions — Compilation report —

Part 1:
Rule by rule comparison

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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).

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This document was prepared by Technical Committee ISO/TC 178, *Lifts, escalators and moving walks.*

This first edition of ISO/TR 25741-1, together with ISO/TR 25741-2, cancels and replaces ISO/TR 25741:2008, which has been technically revised.

A list of all parts in the ISO 25741 series can be found on the ISO website.

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.

Introduction

The work on a comparison of world-wide standards which includes the American, Australian, European and Japanese escalator and moving walk safety code was started in 2016, with the aim to prepare a cross reference between the relevant sections of these standards and to analyse the differences on selected subjects. The goal at that time was to prepare a document which would provide reference information to assist national committees when reviewing and revising individual standards, which can initiate a gradual convergence of the technical requirements.

This document is intended to aid standards writers in developing their seismic requirements, and to help standards users understand the basis for the requirements as they are applied throughout the world.

This document is not intended to replace existing seismic standards which have possibly been updated. Conclusions are arrived at in some cases, but only where there is unanimity amongst the various experts. In other cases, the reasons for the divergent views are expressed.

This document is intended to be read in conjunction with the various seismic standards. The information contained in this document does not necessarily represent the opinions of these standards writing organizations (see the Bibliography for references). This document was prepared with EN 81-77:2018 and EN 115-1: 2017 Annex M. All other codes are not in their normal sequence and logical order. They are structured differently to EN 81-77:2018 and EN 115-1: 2017 Annex M.

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Part 1: Rule by rule comparison

1 Scope

This document compares the requirements of selected topics as covered by the following seismic standards (excluding local deviations):

a) EN 81-77:2018 (EU);

b) ASME 17.1 16 CH 8.4 (USA) / CSA B44-16 CH 8.4 (CAN);

c) NZS 4332-1997, NZS1170.5-2004 (NZ);

d) AS 1735.1:2016, AS 1735.5 :2001 (AUS);

e) BSLJ / GFS:2016 (Japan).

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Rule by rule comparison

4.1 General

This comparison is made between EN 81-77:2018, EN 115-1:2017, Annex M, and the rules in ASME A17.116/ CSA B44-16, AS 1735.1:2016, AS 1735.5 (EN 115:1995), NZS 4332-1997, NZS1170.5-2004 and Japanese Building Codes.

There are other standards, see listed in the Scope (Clause 1), in the countries concerned that have requirements which are not shown in the escalator/moving walk standards compared, but address some of the same requirements as EN 81-77/EN 115-1:2017, Annex M.

EN 81-77 / EN 115-1:2017, Annex M clause numbers in brackets serve only as a reference point. They do not exist in the published version of EN 81-77/EN 115-1:2017, Annex M.