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Safety requirements for escalators and moving walks

Part 1: Global essential safety requirements (GESR)



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- Australian Elevator Association
- Australian Industry Group
- Communications, Electrical and Plumbing Union—Electrical Division
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Australian Standard®

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Part 1: Global essential safety requirements (GESR)

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-004, Lift Installations.

The objective of this Standard is to specify global essential safety requirements (GESRs) when using new technologies in the design and certifying of escalators and moving walks.

This Standard is identical with, and has been reproduced from ISO/TS 25740-1:2011, *Safety requirements for escalators and moving walks*, Part 1: *Global essential safety requirements (GESR)*.

As this Standard is reproduced from an International Technical Specification, the following applies:

(a) In the source text ‘this part of ISO/TS 25740’ should read ‘this Australian Standard’.

(b) A full point substitutes for a comma when referring to a decimal marker.

None of the normative references in the source document have been adopted as Australian or Australian/New Zealand Standards.

The term ‘informative’ has been used in this Standard to define the application of the annexes to which it applies. An ‘informative’ annex is only for information and guidance.

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INTRODUCTION

After the publication of ISO/TR 14799-1 and ISO/TR 14799-2, discrepancies were noted in the safety standards for escalators and moving walks. A need for the establishment of global essential safety requirements (GESR) for escalators and moving walks was identified, which resulted in the publication of ISO 14798. This methodology was a critical tool in the development of this Technical Specification on safety requirements for escalators and moving walks.

The objective of this Technical Specification is to:

a) define a common global level of safety for all people using, or associated with, escalators and moving walks;

b) facilitate innovation of escalators and moving walks not designed according to existing local, national or regional safety standards, while maintaining equal levels of safety (if such innovations become state of the art, they can then be integrated into the detailed local safety standard at a later date);

c) remove trade barriers.

NOTE ISO/TS 25740-2 will contain global essential safety parameters (GESPs) for escalators and moving walks that should further assist in the use and implementation of the GESRs specified in this part of ISO/TS 25740.

Clause 4 gives the approach and methodology used in the development of this part of ISO/TS 25740. Clause 5 gives instructions for the use and implementation of GESRs. The GESRs are given in Clause 6. Each GESR specifies a safety objective, i.e. what is to be achieved rather than how to do it, in order to allow innovation and development of future technologies.

Annex A gives an overview of GESRs in relation to subsystems of escalators and moving walks. Annex B demonstrates compliance of this document with the European Directive for Machinery 2006/42/EC.

This part of ISO/TS 25740 is a basic safety standard according to the principles given in ISO/IEC Guide 51.

AUSTRALIAN STANDARD

Safety requirements for escalators and moving walks

Part 1:
Global essential safety requirements (GESR)

1 Scope

This part of ISO/TS 25740:

— specifies global essential safety requirements (GESRs) for escalators and moving walks, their components and functions, and

— establishes a system and provides methods for minimizing safety risks that might arise in the course of the operation and use of, or work on, escalators and moving walks.

NOTE See Clause 5 regarding the use and application of this part of ISO/TS 25740.

This part of ISO/TS 25740 is applicable to escalators and moving walks that are intended to carry persons. The escalators and moving walks to which this part of ISO/TS 25740 applies can:

a) be located in any permanent and fixed structure or building;

b) have any

   1) rated load, size of load carrying unit (LCU) and speed, and

   2) travel height;

c) be affected by fire in the environment of the LCU and weather conditions;

d) be misused.

This part of ISO/TS 25740 does not specifically cover:

— all needs of users with disabilities[1)];

— risks arising from work on escalators and moving walks under construction or during alterations and dismantling; vandalism; fire in the environment outside the LCU.

1) Although the GESRs specified in this part of ISO/TS 25740 have been identified and evaluated by risk assessment, not all disabilities or combinations of such disabilities of users have necessarily been addressed.

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