

**Energy performance of lifts, escalators and moving
walks - Part 1: Energy measurement and verification
(ISO 25745-1:2012)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 25745-1:2012 sisaldab Euroopa standardi EN ISO 25745-1:2012 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 25745-1:2012 consists of the English text of the European standard EN ISO 25745-1:2012.
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English Version

Energy performance of lifts, escalators and moving walks - Part
1: Energy measurement and verification (ISO 25745-1:2012)

Performance énergétique des ascenseurs, escaliers
mécaniques et trottoirs roulants - Partie 1: Mesurage de
l'énergie et vérification (ISO 25745-1:2012)

Energieeffizienz von Aufzügen, Fahrtreppen und
Fahrsteigen - Teil 1: Energiemessung und Konformität (ISO
25745-1:2012)

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Foreword

This document (EN ISO 25745-1:2012) has been prepared by Technical Committee ISO/TC 178 "Lifts, escalators and moving walks" in collaboration with Technical Committee CEN/TC 10 "Lifts, escalators and moving walks" the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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Endorsement notice

The text of ISO 25745-1:2012 has been approved by CEN as a EN ISO 25745-1:2012 without any modification.

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
1.1 General	1
1.2 Lifts	1
1.3 Escalators and moving walks	1
2 Terms and definitions	1
3 Measurement and verification of lift, escalator and moving walk energy usage	3
3.1 General	3
3.2 Lift energy measurements or escalator and moving walk power measurements	4
3.3 Lift, escalator and moving walk energy verification check	4
3.4 Multiple lift, escalator and moving walk installations	5
4 Measurement procedures for a lift installation	5
4.1 Preliminaries	5
4.2 Procedures for the energy measurements	6
4.3 Procedures for the energy verification check	7
5 Measurement procedures for an escalator or moving walk installation	9
5.1 Preliminaries	9
5.2 Procedures for power measurement	9
5.3 Procedures for the power verification check	10
6 Reporting	10
6.1 General information	10
6.2 Lift reporting	11
6.3 Lift energy usage verification check	11
6.4 Escalator and moving walk energy reporting	12
6.5 Escalator and moving walk energy verification check reporting	12
Annex A (informative) Measuring instrument coupling points	13
Bibliography	15

Introduction

This International Standard has been prepared in response to the rapidly increasing need to ensure and to support the efficient and effective use of energy. This International Standard provides:

- a) a consistent method of measuring actual energy usage of an installed lift, escalator and moving walk;
- b) a simple method to periodically verify that energy usage of an installed unit has not changed — this is in support of regulatory periodic energy verification requirements.

This International Standard is intended to be a reference for the following parties:

- building developers or owners determining and confirming the energy consumption of a building;
- building owners and service companies for performing regulatory periodic energy verification;
- the manufacturers, installers and maintenance providers of lifts, escalators and moving walks;
- consultants and architects involved in specification of lifts, escalators and moving walks.

The total energy consumption over the entire life cycle of lifts, escalators and moving walks consists of the energy to manufacture, install, operate, and the disposal of lifts, escalators and moving walks. However, for the purpose of this International Standard, only the power consumption of the lift, escalator or moving walk required for its operation is considered in the assessment of energy consumption and its verification.

This International Standard is suitable for national or regional jurisdictional energy performance purposes, such as European Directive 2010/31/EU.^[4]

Energy performance of lifts, escalators and moving walks —

Part 1: Energy measurement and verification

1 Scope

1.1 General

This part of ISO 25745 specifies:

- a) methods of measuring actual energy consumption of lifts, escalators and moving walks on a single unit basis;
- b) methods of carrying out periodic energy verification checks on lifts, escalators and moving walks in operation.

This part of ISO 25745 only considers the energy performance during the operational portion of the life cycle of the lifts, escalators or moving walks.

1.2 Lifts

For lifts, this part of ISO 25745 does not cover energy aspects, such as:

- a) hoistway lighting;
- b) heating and cooling equipment in the lift car;
- c) machine room lighting;
- d) machine room heating, ventilation and air conditioning;
- e) non-lift, display systems, closed circuit television security cameras, etc.;
- f) non-lift, monitoring systems (building management systems, etc.);
- g) the effect of lift group dispatching on energy consumption;
- h) consumption through the power sockets.

1.3 Escalators and moving walks

For escalators and moving walks, this part of ISO 25745 covers energy aspects of the ancillary equipment, such as:

- a) lighting with the exception of comb plate lighting and step gap lighting and traffic light;
- b) cooling and heating;
- c) alarm devices and emergency battery supplies equipment, etc.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1

ancillary current

current drawn by the ancillary circuit(s) through the ancillary switch(es)