



SLOVENSKI STANDARD
SIST EN ISO 25745-1:2023

01-december-2023

**Energetska učinkovitost dvigal (liftov), tekočih stopnic in tekočih stez - 1. del:
Merjenje energije in preverjanje (ISO 25745-1:2023)**

Energy performance of lifts, escalators and moving walks - Part 1: Energy measurement and verification (ISO 25745-1:2023)

Energieeffizienz von Aufzügen, Fahrtreppen und Fahrsteigen - Teil 1: Energiemessung und Überprüfung (ISO 25745-1:2023)

Performance énergétique des ascenseurs, escaliers mécaniques et trottoirs roulants - Partie 1: Mesurage de l'énergie et vérification (ISO 25745-1:2023)

Ta slovenski standard je istoveten z: EN ISO 25745-1:2023

[SIST EN ISO 25745-1:2023](https://standards.sist.net/catalog/standards/sist-en-iso-25745-1-2023)

ICS:

91.140.90 Dvigala. Tekoče stopnice Lifts. Escalators

SIST EN ISO 25745-1:2023

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 25745-1

July 2023

ICS 91.140.90

Supersedes EN ISO 25745-1:2012

English Version

Energy performance of lifts, escalators and moving walks - Part 1: Energy measurement and verification (ISO 25745- 1:2023)

Performance énergétique des ascenseurs, escaliers
mécaniques et trottoirs roulants - Partie 1: Mesure de
l'énergie et vérification (ISO 25745-1:2023)

Energieeffizienz von Aufzügen, Fahrtreppen und
Fahrsteigen - Teil 1: Energiemessung und Überprüfung
(ISO 25745-1:2023)

This European Standard was approved by CEN on 15 July 2023.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

[SIST EN ISO 25745-1:2023](https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 25745-1:2023](https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023>

European foreword

This document (EN ISO 25745-1:2023) 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 January 2024, and conflicting national standards shall be withdrawn at the latest by January 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 25745-1:2012.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

iTeh Standards
(<https://standards.iteh.ai>)

The text of ISO 25745-1:2023 has been approved by CEN as EN ISO 25745-1:2023 without any modification.

[SIST EN ISO 25745-1:2023](https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023>

INTERNATIONAL STANDARD

ISO 25745-1

Second edition
2023-07

Energy performance of lifts, escalators and moving walks —

Part 1: Energy measurement and verification

*Performance énergétique des ascenseurs, escaliers mécaniques et
trottoirs roulants —*

Partie 1: Mesure de l'énergie et vérification

iTeh Standards

(<https://standards.iteh.ai>)

Document Preview

[SIST EN ISO 25745-1:2023](https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023>



Reference number
ISO 25745-1:2023(E)

© ISO 2023

ISO 25745-1:2023(E)

iTeh Standards (<https://standards.iteh.ai>) Document Preview

[SIST EN ISO 25745-1:2023](https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023>



COPYRIGHT PROTECTED DOCUMENT

© ISO 2023

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	v
Introduction	vi
1 Scope	1
1.1 General.....	1
1.2 Lifts.....	1
1.3 Escalators and moving walks.....	1
2 Normative references	2
3 Terms and definitions	2
4 Measurement and verification of lift, escalator and moving walk energy usage	4
4.1 General.....	4
4.2 Lift energy measurements or escalator and moving walk power measurements.....	5
4.3 Lift, escalator and moving walk energy verification check.....	5
4.3.1 General.....	5
4.3.2 Lift.....	5
4.3.3 Escalator and moving walk.....	5
4.4 Multiple lift, escalator and moving walk installations.....	5
5 Measurement procedures for a lift installation	6
5.1 Preliminaries.....	6
5.1.1 Instrumentation.....	6
5.1.2 Accuracy.....	6
5.1.3 Test setup.....	6
5.1.4 Coupling points.....	6
5.2 Procedures for the energy measurements.....	6
5.2.1 General.....	6
5.2.2 Main energy — running.....	7
5.2.3 Main energy — idle and standby.....	7
5.2.4 Ancillary energy — running.....	7
5.2.5 Ancillary energy — idle and standby.....	8
5.3 Procedures for the energy verification check.....	8
5.3.1 General.....	8
5.3.2 Main current — running.....	8
5.3.3 Main current — idle and standby.....	9
5.3.4 Ancillary current — running.....	9
5.3.5 Ancillary current — idle and standby.....	9
6 Measurement procedures for an escalator or moving walk installation	10
6.1 Preliminaries.....	10
6.1.1 Instrumentation.....	10
6.1.2 Accuracy.....	10
6.1.3 Test setup.....	10
6.2 Procedures for power measurement.....	10
6.2.1 General.....	10
6.2.2 Main power — running.....	11
6.2.3 Power measured in standby condition.....	11
6.2.4 Power measured in autostart condition (if available).....	11
6.2.5 Power measured in slow speed condition (if available).....	11
6.2.6 Power measured in no load condition.....	11
6.2.7 Power measured in ancillary equipment.....	11
6.3 Procedures for the power verification check.....	11
7 Reporting	11
7.1 General information.....	11
7.2 Lift reporting.....	12
7.2.1 General.....	12

ISO 25745-1:2023(E)

7.2.2	Main energy — running:.....	12
7.2.3	Main energy — Idle and standby:.....	12
7.2.4	Ancillary energy — running:.....	12
7.2.5	Ancillary energy — idle and standby:.....	12
7.3	Lift energy usage verification check.....	12
7.3.1	General.....	12
7.3.2	Main current — running:.....	12
7.3.3	Main current — idle and standby:.....	13
7.3.4	Ancillary current — running:.....	13
7.3.5	Ancillary current —idle and standby:.....	13
7.4	Escalator and moving walk energy reporting.....	13
7.5	Escalator and moving walk energy verification check reporting.....	13
Annex A (informative) Measuring instrument coupling points.....		14
Bibliography.....		16

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 25745-1:2023](https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023)

<https://standards.iteh.ai/catalog/standards/sist/c1a88353-90f4-4a11-8a95-ff8bc2d20c0a/sist-en-iso-25745-1-2023>