

STN	Energetická hospodárnosť výtáhov, pohyblivých schodov a pohyblivých chodníkov. Časť 3: Výpočet energie a klasifikácia pohyblivých schodov a pohyblivých chodníkov (ISO 25745-3:2015).	STN EN ISO 25745-3 27 4040
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Energy performance of lifts, escalators and moving walks - Part 3: Energy calculation and classification of escalators and moving walks (ISO 25745-3:2015)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Energy performance of lifts, escalators and moving walks - Part 3: Energy calculation and classification of escalators and moving walks (ISO 25745-3:2015)

Performance énergétique des ascenseurs, escaliers mécaniques et trottoirs roulants - Partie 3: Calcul énergétique et classification des escaliers mécaniques et trottoirs roulants (ISO 25745-3:2015)

Energieeffizienz von Aufzügen, Fahrtreppen und Fahrsteigen - Teil 3: Energieberechnung und Klassifizierung von Fahrtreppen und Fahrsteigen (ISO 25745-3:2015)

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Foreword

This document (EN ISO 25745-3:2015) 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of an identical text or by endorsement, at the latest by October 2015, and conflicting national standards shall be withdrawn at the latest by October 2015.

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

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Endorsement notice

The text of ISO 25745-3:2015 has been approved by CEN as EN ISO 25745-3:2015 without any modification.

**Energy performance of lifts, escalators
and moving walks —**

Part 3:
**Energy calculation and classification
of escalators and moving walks**

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

*Partie 3: Calcul énergétique et classification des escaliers mécaniques
et trottoirs roulants*





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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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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 178, *Lifts, escalators and moving walks*.

ISO 25745 consists of the following parts, under the general title *Energy performance of lifts, escalators and moving walks*:

- *Part 1: Energy measurement and verification*
- *Part 2: Energy calculation and classification for lifts (elevators)*
- *Part 3: Energy calculation and classification for escalators and moving walks*

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 method to estimate energy consumption of escalators and moving walks on a daily and an annual basis for escalators and moving walks,
- b) a method for energy classification of new, existing, or modernized escalators and moving walks,
- c) guidelines for reducing energy consumption that can be used to support building and environmental and energy classification systems.

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

- building developers/owners to evaluate the energy consumption of escalators and moving walks;
- building owners and service companies when modernising installations including reduction of energy consumption;
- the installers and maintenance providers of escalators and moving walks;
- consultants and architects involved in specification of escalators and moving walks;
- inspecting authorities and other third parties providing energy classification services.

The total energy consumption over the entire life cycle of escalators and moving walks consists of the energy to manufacture, install, operate, and dispose of the lifts. However, for the purpose of this International Standard, only operating energy (running and standby) performance is considered.

In the preparation of this International Standard, Technical Committee ISO/TC 178/ WG 10 has initiated extensive research, which included the measuring and modelling of over 300 typical escalator and moving walk installations. The results of this research have been used to provide the numerical values shown in [Table 3](#) and [Table A.3](#).

This International Standard is suitable for national/regional jurisdictional energy performance purposes.

Energy performance of lifts, escalators and moving walks —

Part 3: Energy calculation and classification of escalators and moving walks

1 Scope

This part of ISO 25745 specifies

- a) generic tools for estimating energy consumption of escalators and moving walks, and
- b) a consistent method for energy performance classification of existing, modernized, or new escalators and moving walks.

This part of ISO 25745 considers the energy performance during the operational portion of the life cycle of escalators and moving walks. It does not cover energy consumption and classification of the ancillary equipment, such as the following:

- a) lighting with the exception of comb plate lighting, step gap lighting, and traffic light;

NOTE 1 Comb plate lighting, step gap lighting, and traffic light are considered essential for the operation of the equipment and are therefore not defined as ancillary equipment.

- b) cooling and heating and machine room ventilation;
- c) alarm devices and emergency battery supplies equipment, etc.;
- d) environmental conditions;
- e) consumption through the power sockets.

NOTE 2 There can be other electrical loads not associated with the escalator or moving walk, which shall not be included.

This part of ISO 25745 considers all escalators and inclined moving walks up to a rise of 8 m and horizontal moving walks with a length up to 60 m.

NOTE This represents about 85 % of worldwide installed units.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN