

---

---

**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: Mesurage de l'énergie et vérification*





## **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

Page

|                                                                                             |           |
|---------------------------------------------------------------------------------------------|-----------|
| Foreword .....                                                                              | iv        |
| Introduction .....                                                                          | v         |
| <b>1 Scope .....</b>                                                                        | <b>1</b>  |
| 1.1 General .....                                                                           | 1         |
| 1.2 Lifts .....                                                                             | 1         |
| 1.3 Escalators and moving walks .....                                                       | 1         |
| <b>2 Terms and definitions .....</b>                                                        | <b>1</b>  |
| <b>3 Measurement and verification of lift, escalator and moving walk energy usage .....</b> | <b>3</b>  |
| 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         |
| <b>4 Measurement procedures for a lift installation .....</b>                               | <b>5</b>  |
| 4.1 Preliminaries .....                                                                     | 5         |
| 4.2 Procedures for the energy measurements .....                                            | 6         |
| 4.3 Procedures for the energy verification check .....                                      | 7         |
| <b>5 Measurement procedures for an escalator or moving walk installation .....</b>          | <b>9</b>  |
| 5.1 Preliminaries .....                                                                     | 9         |
| 5.2 Procedures for power measurement .....                                                  | 9         |
| 5.3 Procedures for the power verification check .....                                       | 10        |
| <b>6 Reporting .....</b>                                                                    | <b>10</b> |
| 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        |
| <b>Annex A (informative) Measuring instrument coupling points .....</b>                     | <b>13</b> |
| <b>Bibliography .....</b>                                                                   | <b>15</b> |