



# CSA B44.1:25/ASME A17.5-2025

## Elevator and escalator electrical equipment



# Legal Notice for Harmonized Standard Jointly Developed by ASME and CSA Group

## Intellectual property rights and ownership

As between American Society of Mechanical Engineers ("ASME") and Canadian Standards Association (Operating as "CSA Group") (collectively "ASME and CSA Group") and the users of this document (whether it be in printed or electronic form), ASME and CSA Group are the joint owners of all works contained herein that are protected by copyright, all trade-marks (except as otherwise noted to the contrary), and all inventions and trade secrets that may be contained in this document, whether or not such inventions and trade secrets are protected by patents and applications for patents. The unauthorized use, modification, copying, or disclosure of this document may violate laws that protect the intellectual property of ASME and CSA Group and may give rise to a right in ASME and CSA Group to seek legal redress for such use, modification, copying, or disclosure. ASME and CSA Group reserve all intellectual property rights in this document.

## Disclaimer and exclusion of liability

This document is provided without any representations, warranties, or conditions of any kind, express or implied, including, without limitation, implied warranties or conditions concerning this document's fitness for a particular purpose or use, its merchantability, or its non-infringement of any third party's intellectual property rights. ASME and CSA Group do not warrant the accuracy, completeness, or currency of any of the information published in this document. ASME and CSA Group make no representations or warranties regarding this document's compliance with any applicable statute, rule, or regulation.

IN NO EVENT SHALL ASME AND CSA GROUP, THEIR RESPECTIVE VOLUNTEERS, MEMBERS, SUBSIDIARIES, OR AFFILIATED COMPANIES, OR THEIR EMPLOYEES, DIRECTORS, OR OFFICERS, BE LIABLE FOR ANY DIRECT, INDIRECT, OR INCIDENTAL DAMAGES, INJURY, LOSS, COSTS, OR EXPENSES, HOWSOEVER CAUSED, INCLUDING BUT NOT LIMITED TO SPECIAL OR CONSEQUENTIAL DAMAGES, LOST REVENUE, BUSINESS INTERRUPTION, LOST OR DAMAGED DATA, OR ANY OTHER COMMERCIAL OR ECONOMIC LOSS, WHETHER BASED IN CONTRACT, TORT (INCLUDING NEGLIGENCE), OR ANY OTHER THEORY OF LIABILITY, ARISING OUT OF OR RESULTING FROM ACCESS TO OR POSSESSION OR USE OF THIS DOCUMENT, EVEN IF ASME OR CSA GROUP HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, INJURY, LOSS, COSTS, OR EXPENSES.

In publishing and making this document available, ASME and CSA Group are not undertaking to render professional or other services for or on behalf of any person or entity or to perform any duty owed by any person or entity to another person or entity. The information in this document is directed to those who have the appropriate degree of experience to use and apply its contents, and ASME and CSA Group accept no responsibility whatsoever arising in any way from any and all use of or reliance on the information contained in this document.

ASME and CSA Group have no power, nor do they undertake, to enforce compliance with the contents of the standards or other documents they jointly publish.

## Authorized use of this document

This document is being provided by ASME and CSA Group for informational and non-commercial use only. The user of this document is authorized to do only the following:

If this document is in electronic form:

- load this document onto a computer for the sole purpose of reviewing it;
- search and browse this document; and
- print this document if it is in PDF format.

Limited copies of this document in print or paper form may be distributed only to persons who are authorized by ASME and CSA Group to have such copies, and only if this Legal Notice appears on each such copy.

In addition, users may not and may not permit others to

- alter this document in any way or remove this Legal Notice from the attached standard;
- sell this document without authorization from ASME and CSA Group; or
- make an electronic copy of this document.

If you do not agree with any of the terms and conditions contained in this Legal Notice, you may not load or use this document or make any copies of the contents hereof, and if you do make such copies, you are required to destroy them immediately. Use of this document constitutes your acceptance of the terms and conditions of this Legal Notice.



# ***Standards Update Service***

## ***CSA B44.1:25/ASME A17.5-2025 March 2025***

**Title:** *Elevator and escalator electrical equipment*

To register for e-mail notification about any updates to this publication go to [updates.csagroup.org](https://updates.csagroup.org).

The **List ID** that you will need to register for updates to this publication is **2430939**.

If you require assistance, please e-mail [techsupport@csagroup.org](mailto:techsupport@csagroup.org) or call 416-747-2233.

Visit CSA Group's policy on privacy at [www.csagroup.org/legal](https://www.csagroup.org/legal) to find out how we protect your personal information.

ASMENORMDOC.COM : Click to view the full PDF of ASME A17.5 CSA B44.1 2025

**Canadian Standards Association (operating as “CSA Group”)**, under whose auspices this National Standard has been produced, was chartered in 1919 and accredited by the Standards Council of Canada to the National Standards system in 1973. It is a not-for-profit, nonstatutory, voluntary membership association engaged in standards development and certification activities.

CSA Group standards reflect a national consensus of producers and users — including manufacturers, consumers, retailers, unions and professional organizations, and governmental agencies. The standards are used widely by industry and commerce and often adopted by municipal, provincial, and federal governments in their regulations, particularly in the fields of health, safety, building and construction, and the environment.

More than 10 000 members indicate their support for CSA Group’s standards development by volunteering their time and skills to Committee work.

CSA Group offers certification and testing services in support of and as an extension to its standards development activities. To ensure the integrity of its certification process, CSA Group regularly and continually audits and inspects products that bear the CSA Group Mark.

In addition to its head office and laboratory complex in Toronto, CSA Group has regional branch offices in major centres across Canada and inspection and testing agencies in fourteen countries. Since 1919, CSA Group has developed the necessary expertise to meet its corporate mission: CSA Group is an independent service organization whose mission is to provide an open and effective forum for activities facilitating the exchange of goods and services through the use of standards, certification and related services to meet national and international needs.

For further information on CSA Group services, write to  
CSA Group  
178 Rexdale Boulevard  
Toronto, Ontario, M9W 1R3  
Canada

A National Standard of Canada is a standard developed by a Standards Council of Canada (SCC) accredited Standards Development Organization, in compliance with requirements and guidance set out by SCC. More information on National Standards of Canada can be found at [www.scc.ca](http://www.scc.ca).

SCC is a Crown corporation within the portfolio of Innovation, Science and Economic Development (ISED) Canada. With the goal of enhancing Canada’s economic competitiveness and social wellbeing, SCC leads and facilitates the development and use of national and international standards. SCC also coordinates Canadian participation in standards development, and identifies strategies to advance Canadian standardization efforts.

Accreditation services are provided by SCC to various customers, including product certifiers, testing laboratories, and standards development organizations. A list of SCC programs and accredited bodies is publicly available at [www.scc.ca](http://www.scc.ca).

Standards Council of Canada  
600-55 Metcalfe Street  
Ottawa, Ontario, K1P 6L5  
Canada



Cette Norme Nationale du Canada est disponible en versions française et anglaise.

*Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users to judge its suitability for their particular purpose.*

*™A trademark of the Canadian Standards Association, operating as “CSA Group”*

# ***National Standard of Canada American National Standard***

## ***CSA/ASME Standard***

***CSA B44.1:25/ASME A17.5-2025***

***Elevator and escalator electrical equipment***



® A trademark of the Canadian Standards Association  
and CSA America Inc., operating as "CSA Group"

*Approved on March 12, 2025 by ANSI  
Published in March 2025 by CSA Group  
A not-for-profit private sector organization  
178 Rexdale Boulevard, Toronto, Ontario, Canada M9W 1R3  
1-800-463-6727 • 416-747-4044*

**Visit the CSA Group Online Store at [www.csagroup.org/store/](http://www.csagroup.org/store/)**

*The American Society of Mechanical Engineers (ASME)  
Two Park Avenue  
New York, NY 10016-5990, USA  
1-800-843-2763*

**Visit the ASME Online Store at [www.asme.org](http://www.asme.org)**

## Commitment for Amendments

This Standard is issued jointly by the American Society of Mechanical Engineers (ASME) and the Canadian Standards Association (Operating as “CSA Group”). Amendments to this Standard will be made only after processing according to the Standards writing procedures of both ASME and CSA Group.

The American Society of Mechanical Engineers (ASME)  
Two Park Avenue  
New York, NY 10016-5990  
USA  
1-800-843-2763  
Visit the ASME Online Store at  
[www.asme.org](http://www.asme.org)

ISBN 978-0-7918-7746-3  
Copyright © 2025 by The American Society of Mechanical Engineers (ASME)

This Standard is available for public review on a continuous basis. This provides an opportunity for additional public input from industry, academia, regulatory agencies, and the public at large.



All rights reserved. “ASME” and the above ASME symbol are registered trademarks of The American Society of Mechanical Engineers. No part of this document may be copied, modified, distributed, published, displayed, or otherwise reproduced in any form or by any means, electronic, digital, or mechanical, now known or hereafter invented, without the express written permission of ASME. No works derived from this document or any content therein may be created without the express written permission of ASME. Using this document or any content therein to train, create, or improve any artificial intelligence and/or machine learning platform, system, application, model, or algorithm is strictly prohibited.

Published in March 2025 by  
CSA Group  
A not-for-profit private sector organization  
178 Rexdale Boulevard  
Toronto, Ontario, Canada  
M9W 1R3  
1-800-463-6727 or 416-747-4044  
Visit the CSA Group Online Store at  
[www.csagroup.org/store/](http://www.csagroup.org/store/)

ISBN 978-1-4883-5266-9  
ICS 91.140.90  
© 2025 Canadian Standards Association

All rights reserved. No part of this publication may be reproduced in any form whatsoever without the prior permission of the publisher.

# Contents

CSA Technical Committee on the Elevator Safety Code	7
ASME A17 Standards Committee on Elevators and Escalators	12
CSA B44.1/ASME A17.5 Joint Committee on Elevator and Escalator Electrical Equipment	16
Preface	18
<b>1 Scope</b>	<b>21</b>
1.1 Electrical equipment covered by this Standard	21
1.1.1 Application	21
1.1.2 Types of electrical equipment	21
1.2 Maximum voltage and ambient temperatures	21
1.3 Fire and electrical shock hazards	22
1.4 Terminology	22
1.5 Units	22
<b>2 Reference publications, definitions, and abbreviations</b>	<b>22</b>
2.1 Reference publications	22
2.2 Definitions	24
2.3 Abbreviations	27
<b>3 Construction</b>	<b>28</b>
3.1 Electrical components	28
3.2 Component without an appropriate standard	28
3.3 Circuits directly connected to a telecommunication network	28
3.4 Battery powered platform lifts and stair lifts for barrier-free access	29
3.5 Short-circuit current rating	29
3.5.1 General	29
3.5.2 Short-circuit current rating for an assembly in Canada	29
3.5.3 Short-circuit current rating for an assembly in the U.S.	29
<b>4 Enclosure construction</b>	<b>29</b>
4.1 General	29
4.1.1 Enclosure strength and rigidity	29
4.1.2 Risk of unintentional contact	29
4.2 Thickness of cast-metal enclosures for live parts	29
4.2.1 General	29
4.2.2 Minimum thickness requirements	30
4.2.3 Exceptions to minimum thickness requirements	30
4.3 Thickness of sheet-metal enclosures for live parts	30
4.3.1 Minimum thickness requirements	30
4.3.2 Exceptions to minimum thickness requirements	30
4.3.3 Supporting frame	30
<b>5 Doors and covers</b>	<b>31</b>
5.1 Securement	31

5.2	Preventing contact with live parts	31
5.3	Equipment accessible to general public (AGP)	31
<b>6</b>	<b>Polymeric enclosures</b>	<b>31</b>
6.1	Conduit connection test	31
6.2	Thickness	31
6.3	Polymeric enclosure requirements	31
6.3.1	Flame rating	31
6.3.2	Criteria for Flame Tests A and B	32
6.4	Polymeric materials used outside a protective or fire enclosure	32
6.4.1	Flame rating	32
6.4.2	Non-metallic plug or other closure means assembled to a sheet-metal box	32
6.5	Impact tests	33
6.6	Insulating material	33
6.7	Bonding requirements	33
6.8	Bonding conductors	33
6.9	Bonding conductor minimum size	33
<b>7</b>	<b>Openings in enclosures</b>	<b>34</b>
7.1	Requirements for all enclosures	34
7.1.1	Openings	34
7.1.2	Probe test	34
7.1.3	Usage of probe	34
7.1.4	Dimension of an opening	34
7.1.5	Bottom of the enclosure	34
7.1.6	Opening on the bottom of the enclosure	34
7.1.7	Wires of a screen	34
7.1.8	Metal mesh	35
7.1.9	Glass covering an observation opening and forming a part of the enclosure	35
7.2	Requirements for equipment enclosures marked in accordance with Clause <a href="#">20.23</a>	35
<b>8</b>	<b>Wire-bending space</b>	<b>35</b>
8.1	General	35
8.2	When a wire is restricted by a barrier or obstruction from being bent	35
8.3	Wire-bending space measurement exclusions	36
8.4	Wire size	36
<b>9</b>	<b>Enclosures with environmental ratings</b>	<b>36</b>
<b>10</b>	<b>Protection against corrosion</b>	<b>36</b>
<b>11</b>	<b>Insulating material</b>	<b>36</b>
11.1	General	36
11.2	Flame ratings	36
11.3	Insulating materials	36
11.4	Printed circuit board and coating	36
<b>12</b>	<b>Protective devices</b>	<b>37</b>
12.1	Overcurrent protection	37
12.2	Number, arrangement, and ratings or settings of protective devices	37



12.2.1	General	37
12.2.2	When a short circuit rating is greater than 10 000 A	37
12.3	Supplementary overcurrent protection	37
12.4	Disconnecting means	37
12.4.1	General	37
12.4.2	Mounting of a single throw knife switch	37
12.4.3	Using a single throw knife switch	37
12.4.4	Locking the disconnecting means	37
12.4.5	Interlock	37
12.4.6	Handle positions	38
12.4.7	Function of disconnection means	38
12.4.8	Use of a manual motor controller	38
12.4.9	Electrical requirements	38
12.5	Power from more than one source	39

### **13 Protection of control circuits 39**

13.1	Control circuit conductor protection	39
13.2	Control circuit transformer protection	40
13.2.1	Overcurrent protection	40
13.2.2	Overcurrent protection exceptions	40
13.2.3	Secondary protection	40
13.2.4	Standard rated fuse or circuit breaker	40
13.2.5	Protection in primary circuit only	40
13.2.6	Supplementary protectors	40
13.3	Use of supplementary protectors in control circuits	41

### **14 Internal wiring 41**

14.1	General	41
14.2	Conductors smaller than No. 24 AWG	41
14.3	Insulation between conductors	42
14.4	Protection of wiring	42
14.5	Bare live parts	42
14.6	Bare conductors	42

### **15 Wiring terminals and leads 42**

15.1	General	42
15.2	Device current rating or hp rating	42
15.3	Minimum lead sizes	43
15.4	Field wiring terminal	43
15.5	Wire-binding screws	43
15.6	Terminal plates tapped for a wire-bending screw	43
15.7	Threading depth	43
15.8	Cord-connected equipment	43
15.8.1	General	43
15.8.2	Strain relief	43

### **16 Electrical spacings 44**

16.1	General	44
16.2	When transient voltages are known and controlled	44
16.3	Transient suppression device	44

16.4	Maintaining electrical surfaces	44
16.5	Spacing at field wiring terminal	44
16.6	Spacings for devices with limited ratings	44
16.7	Spacings for other small devices	44
16.8	Magnetically operated switches	45
16.9	Spacings on printed circuit boards	45
16.10	Spacings for motor controllers rated more than 1 hp at 151 to 300 V	45
16.11	Spacings for motor controllers rated more than 1 hp at 51 to 150 V	45
16.12	Spacings for circuits with 50 V or less	45
16.13	Spacings on pilot light	46
16.14	Spacings on series circuit	46
16.15	Spacing on switches	46
16.16	Spacings on fuses and fuseholders	46
16.17	Ceramic, vitreous-enamel, or similar coatings	46
16.18	Spacing on parts in the OFF position	46
16.19	Enamelled or similar film-coated wires	46
16.20	Insulating barrier or liner	46
16.21	Insulating barrier or liner in addition to air space	47
16.22	Thin insulating material	47
16.23	Gaskets or seals	47
16.24	Enclosure without conduit openings or knockouts	47
16.25	Space between bare live parts and bushing	47
16.26	Spacing within components	47
16.26.1	General	47
16.26.2	Fuseholders	48
16.27	Alternative methods	48
16.27.1	General	48
16.27.2	Spacing between uninsulated live part and metal enclosure wall	48
16.27.3	Field wiring terminals	48
16.27.4	Guidelines when using CSA C22.2 No. 0.2 or ANSI/UL 840	48
<b>17</b>	<b>Grounding</b>	<b>49</b>
17.1	General	49
17.2	Terminations	49
17.3	Grounding conductors	49
17.4	Maximum number of conductors	49
17.5	Grounding conductor size	49
17.6	Transformers secondary grounding	49
<b>18</b>	<b>Printed circuit boards</b>	<b>49</b>
18.1	General	49
18.2	Printed circuit boards located in Class 2 circuits	49
18.3	Printed circuit boards located in circuits with extra-low voltage	50
<b>19</b>	<b>Tests</b>	<b>50</b>
19.1	General	50
19.2	Endurance	50
19.2.1	Elevator duty	50
19.2.2	Device that does not make or break current	50

19.2.3	Where elevator duty is not required	50
19.2.4	All other devices	50
19.3	Solid-state ac motor controller tests	51
19.3.1	General	51
19.3.2	Test voltage	51
19.3.3	Temperature test	51
19.3.4	Dielectric voltage withstand test	51
19.3.5	Overvoltage and undervoltage tests	51
19.3.6	Overload and endurance tests	52
19.3.7	Exception	52
19.3.8	Short-circuit test	52
19.3.9	Breakdown of components test	53
19.3.10	Verification of electronic motor overload protection test	53
19.4	Power conversion equipment	53
19.4.1	General	53
19.4.2	Temperature test	54
19.4.3	Dielectric voltage withstand test	54
19.4.4	Operation tests	54
19.4.5	Normal operation	55
19.4.6	Contactor overload	55
19.4.7	Single phasing	55
19.4.8	Inoperative blower motor	55
19.4.9	Clogged filter	55
19.4.10	Current-limiting control	56
19.4.11	Breakdown of components	56
19.4.12	Electronic motor overload protection test	56
19.4.13	Short-circuit test	58
19.5	Impact test	58
19.5.1	General	58
19.5.2	Cold impact	58
19.6	Printed circuit board coatings	58
19.6.1	General	58
19.6.2	Dielectric strength — New samples	58
19.6.3	Dielectric strength — Aged samples	59
19.6.4	Dielectric strength — After humidity conditioning	59
19.6.5	Adhesion	59
19.7	Transient voltage-surge suppression	59
19.7.1	General	59
19.7.2	Input and output	59
19.8	Compression	59
19.8.1	General	59
19.8.2	Set-up	59
19.9	Deflection	60
19.9.1	General	60
19.9.2	Set-up	60
19.10	Cord pullout	60
19.11	Crushing resistance test	60
19.11.1	General	60
19.11.2	Acceptance criteria	60

**20 Marking 60**

20.1	French	60
20.2	General	61
20.3	Copper or aluminum conductors	61
20.4	Electrical ratings	61
20.5	Auxiliary device	62
20.6	Polymeric enclosures	62
20.7	Manual switching means	62
20.8	Equipment with more than one source	62
20.9	Fuse replacement markings	62
20.10	Screw-type terminals	62
20.11	Oil tank	62
20.12	Enclosures with open bottoms	63
20.13	Control devices shipped in separate pieces	63
20.14	A live heat sink and other exposed parts	63
20.15	Short-circuit current rating	63
20.16	Overload relay with a replaceable current element	63
20.17	Grounding conductors No. 6 AWG or smaller	63
20.18	General caution and warning	64
20.18.1	General	64
20.18.2	Language	64
20.19	Control with dc motor ratings	64
20.20	Markings for controllers according to Clause <a href="#">13.1</a>	64
20.21	Power conversion equipment	64
20.21.1	General	64
20.21.2	Motor overload protection	64
20.21.3	Motor thermal protectors	65
20.21.4	Fuse replacement mark	65
20.21.5	Specific overcurrent protective devices	65
20.21.6	Wiring diagrams or instruction manuals	65
20.21.7	Overspeed protection	65
20.21.8	Electronic over-temperature protection	65
20.22	Controllers for platform lifts and chair lifts	65
20.23	Equipment marked with AGP	66
20.24	Controller with disconnecting means	66
20.25	Controllers for wind turbine tower elevators	66
20.26	Controllers for platform lifts or stair lifts for barrier-free access with an emergency power supply	66

---

Annex A (informative) — Application examples 93

Annex B (informative) — CSA Group and ASME elevator and escalator publications 99

Annex C (normative) — French marking translations 103

# CSA Technical Committee on the Elevator Safety Code

<b>D. McColl</b>	Otis Canada Inc. Mississauga, Ontario, Canada <i>Category: Producer Interest</i>	<i>Chair</i>
<b>C. S. Cowen</b>	TK Elevator (Canada) Ltd. Toronto, Ontario, Canada <i>Category: Producer Interest</i>	<i>Vice-Chair</i>
<b>C. M. Ayling</b>	PCL Constructors Canada Inc. Mississauga, Ontario, Canada <i>Category: User/General Interest</i>	
<b>S. Beekman</b>	Les Produits Fraco ltée Cocoa, Florida, USA	<i>Non-voting</i>
<b>L. Bialy</b>	Louis Bialy and Associates LLC San Rafael, California, USA	<i>Non-voting</i>
<b>S. Bornstein</b>	KONE Canada Inc. Mississauga, Ontario, Canada <i>Category: Producer Interest</i>	
<b>M. Brierley</b>	Coldwater, Ontario, Canada	<i>Non-voting</i>
<b>K. L. Brinkman</b>	National Elevator Industry Inc. Eureka, Illinois, USA	<i>Non-voting</i>
<b>D. Bruce</b>	Alberta Municipal Affairs Edmonton, Alberta, Canada <i>Category: Regulatory Authority</i>	
<b>K. C. Cheong</b>	MKC Engineering Corp. Vancouver, British Columbia, Canada <i>Category: User/General Interest</i>	
<b>M. D. Do Couto</b>	Toronto Transit Commission Toronto, Ontario, Canada	<i>Non-voting</i>

<b>K. Duncan</b>	Inspection and Technical Services Winnipeg, Manitoba, Canada <i>Category: Regulatory Authority</i>	
<b>T. Evans</b>	UL Solutions Toronto, Ontario, Canada	<i>Non-voting</i>
<b>P. Fraser</b>	Government of Newfoundland and Labrador/ Service NL Mount Pearl, Newfoundland and Labrador, Canada <i>Category: Regulatory Authority</i>	
<b>A. Ghazanchaei</b>	Otis Canada Inc. Mississauga, Ontario, Canada	<i>Non-voting</i>
<b>G. W. Gibson</b>	George W. Gibson and Associates Inc. Sedona, Arizona, USA	<i>Non-voting</i>
<b>S. Gurumurthy</b>	KONE Canada Inc. Mississauga, Ontario, Canada	<i>Non-voting</i>
<b>A. S. Hopkirk</b>	Trident Elevator Company Ltd. Scarborough, Ontario, Canada <i>Category: User/General Interest</i>	
<b>A. Irving</b>	Alberta Elevating Devices and Amusement Rides Safety Association (AEDARSA) Calgary, Alberta, Canada	<i>Non-voting</i>
<b>R. Isabelle</b>	KJA Consultants Inc. Toronto, Ontario, Canada <i>Category: User/General Interest</i>	
<b>F. Kassem</b>	TK Elevator (Canada) Ltd. Dorval, Québec, Canada	<i>Non-voting</i>
<b>C. Kelesis</b>	Toronto Transit Commission Toronto, Ontario, Canada	<i>Non-voting</i>
<b>J. W. Koshak</b>	Elevator Safety Solutions LLC Germantown, Tennessee, USA	<i>Non-voting</i>
<b>R. Kremer</b>	Technical Standards and Safety Authority (TSSA) Toronto, Ontario, Canada	<i>Non-voting</i>

<b>D. Laguerre</b>	Schindler Elevator Corp. Toronto, Ontario, Canada <i>Category: Producer Interest</i>	
<b>D. Lenardis</b>	Public Service Procurement Canada Ottawa, Ontario, Canada	<i>Non-voting</i>
<b>E. MacArthur</b>	OTIS Canada Inc. Ottawa, Ontario, Canada <i>Category: Producer Interest</i>	
<b>S. E. MacArthur</b>	Government of Prince Edward Island Department of Housing, Land and Communities Charlottetown, Prince Edward Island, Canada <i>Category: Regulatory Authority</i>	
<b>R. Marsiglio</b>	H. H. Angus and Associates Ltd. Toronto, Ontario, Canada <i>Category: User/General Interest</i>	
<b>P. McClare</b>	Department of Labour and Advanced Education Dartmouth, Nova Scotia, Canada <i>Category: Regulatory Authority</i>	
<b>E. McClaskey</b>	International Union of Elevator Constructors Pleasant Hill, California, USA <i>Category: User/General Interest</i>	
<b>K. L. McGettigan</b>	Elevator Industry Work Preservation Fund Effingham, New Hampshire, USA <i>Category: User/General Interest</i>	
<b>A. McGregor</b>	Rooney, Irving and Associates Ltd. Ottawa, Ontario, Canada	<i>Non-voting</i>
<b>C. McIntyre</b>	Canadian Elevator Industry Educational Program Pickering, Ontario, Canada <i>Category: User/General Interest</i>	
<b>D. McLellan</b>	Technical Standards and Safety Authority (TSSA) Toronto, Ontario, Canada <i>Category: Regulatory Authority</i>	
<b>M. Mihai</b>	Technical Standards and Safety Authority (TSSA) Toronto, Ontario, Canada	<i>Non-voting</i>

<b>T. Miller</b>	Priestman Neilson and Associates Ltd. Ottawa, Ontario, Canada <i>Category: User/General Interest</i>	
<b>R. Murphy</b>	Garaventa Canada Ltd. Surrey, British Columbia, Canada <i>Category: Producer Interest</i>	
<b>H. Nuri</b>	Toronto Transit Commission Toronto, Ontario, Canada	<i>Non-voting</i>
<b>S. Palko</b>	Technical Safety Authority of Saskatchewan (TSASK) Regina, Saskatchewan, Canada	<i>Non-voting</i>
<b>M. Pedram</b>	Vertex Elevator Design Etobicoke, Ontario, Canada <i>Category: Producer Interest</i>	
<b>H. Peelle</b>	The Peelle Company Ltd. Brampton, Ontario, Canada <i>Category: Producer Interest</i>	
<b>B. Potvin</b>	National Research Council — Codes Canada Ottawa, Ontario, Canada <i>Category: User/General Interest</i>	
<b>A. Reistetter</b>	National Elevator and Escalator Association Mississauga, Ontario, Canada	<i>Non-voting</i>
<b>S. Reynolds</b>	The Peelle Company Ltd. Brampton, Ontario, Canada	<i>Non-voting</i>
<b>E. Ryba</b>	Public Services and Procurement Canada Ottawa, Ontario, Canada <i>Category: User/General Interest</i>	
<b>R. Santos</b>	Technical Safety Authority of Saskatchewan (TSASK) Regina, Saskatchewan, Canada <i>Category: Regulatory Authority</i>	
<b>R. Scharfe</b>	Pembroke, Ontario, Canada	<i>Non-voting</i>
<b>P. Sorensen</b>	Technical Safety BC Vancouver, British Columbia, Canada	<i>Non-voting</i>



<b>K. Steeves</b>	New Brunswick Department of Public Safety Moncton, New Brunswick, Canada <i>Category: Regulatory Authority</i>	
<b>M. Tevyaw</b>	MHT Codes and Consulting Specialists Burlington, Ontario, Canada	<i>Non-voting</i>
<b>T. Thomas</b>	Government of the Northwest Territories Yellowknife, Northwest Territories, Canada <i>Category: Regulatory Authority</i>	
<b>E. Towson</b>	Technical Safety BC West Kelowna, British Columbia, Canada <i>Category: Regulatory Authority</i>	
<b>B. Virk</b>	UT Elevator Inc. Toronto, Ontario, Canada <i>Category: Producer Interest</i>	
<b>J. Virk</b>	UTE Elevator Inc. Toronto, Ontario, Canada	<i>Non-voting</i>
<b>K. Virk</b>	UT Elevator Inc. Toronto, Ontario, Canada	<i>Non-voting</i>
<b>M. Wu</b>	Société de transport de Montréal (STM) Montréal, Québec, Canada <i>Category: User/General Interest</i>	
<b>L. Yang</b>	CSA Group Toronto, Ontario, Canada	
<b>M. Zingarelli</b>	MAD Elevator Inc. Mississauga, Ontario, Canada	<i>Non-voting</i>
<b>G. Lee</b>	CSA Group Toronto, Ontario, Canada	<i>Project Manager</i>

# ***ASME A17 Standards Committee on Elevators and Escalators***

<b>H. E. Peelle III</b>	The Peelle Co. Ltd. Brampton, Ontario, Canada	<i>Chair</i>
<b>R. E. Baxter</b>	Baxter Residential Elevators LLC Allen, Texas, USA	<i>Vice-Chair</i>
<b>M. H. Tevyaw</b>	MHT Codes and Consulting Specialists Burlington, Ontario, Canada	<i>Vice-Chair</i>
<b>G. A. Burdeshaw</b>	American Society of Mechanical Engineers (ASME) New York, New York, USA	<i>Secretary</i>
<b>E. V. Baker</b>	National Elevator Industry Educational Program Attleboro Falls, Massachusetts, USA	
<b>D. L. Barker</b>	California Division of Occupational Safety and Health Monrovia, California, USA	
<b>J. W. Blain</b>	Edgett Williams Consulting Group Mill Valley, California, USA	
<b>S. Bornstein</b>	KONE Canada Inc. Mississauga, Ontario, Canada	
<b>P. R. Bothwell</b>	Drake EHC Oshawa, Ontario, Canada	
<b>K. L. Brinkman</b>	National Elevator Industry Inc. Eureka, Illinois, USA	
<b>R. C. Burch</b>	Vantage/GAL Manufacturing Co. LLC Nashville, Tennessee, USA	
<b>J. W. Coaker</b>	Coaker & Co. PC Fairfax Station, Virginia, USA	
<b>J. Filippone</b>	East New Brunswick, New Jersey, USA	

<b>R. A. Gregory</b>	Vertex Corp. Chicago, Illinois, USA
<b>P. Hampton</b>	TK Elevator Atlanta, Georgia, USA
<b>J. T. Herrity</b>	Department of the Navy, Naval Facilities Command (NAVFAC) Washington, DC, USA
<b>B. Horne</b>	Otis Elevator Farmington, Connecticut, USA
<b>D. A. Kalgren</b>	KONE Inc. Allen, Texas, USA
<b>J. W. Koshak</b>	Elevator Safety Solutions LLC Germantown, Tennessee, USA
<b>R. Kremer</b>	Technical Standards and Safety Authority (TSSA) Toronto, Ontario, Canada
<b>D. McColl</b>	Otis Canada Inc. Mississauga, Ontario, Canada
<b>D. McLellan</b>	Technical Standards and Safety Authority (TSSA) Toronto, Ontario, Canada
<b>A. L. Peck</b>	Hackensack, New Jersey, USA
<b>D. K. Prince</b>	Motion Control Engineering Inc. Rancho Cordova, California, USA
<b>J. S. Rearick</b>	Rearick & Co. Inc. Kittanning, Pennsylvania, USA
<b>V. P. Robibero</b>	RobiberoV Consultancy LLC Houston, Texas, USA
<b>R. S. Seymour</b>	Robert L. Seymour & Associates Inc. Frederick, Maryland, USA
<b>C. Shade</b>	Ohio Department of Commerce Columbus, Ohio, USA

<b>R. D. Shepherd</b>	Cape May Court House, New Jersey, USA	
<b>W. M. Snyder</b>	VTE Solution LLC Largo, Florida, USA	
<b>J. Xue</b>	Shanghai Institute of Special Equipment Inspection and Technical Research Shanghai, China	<i>Delegate</i>
<b>D. S. Boucher</b>	KONE Inc. Allen, Texas, USA	<i>Alternate</i>
<b>J. Carlson</b>	J Carlson Consulting LLC Oakland, California, USA	<i>Alternate</i>
<b>L. W. Donaldson</b>	Department of the Navy, Naval Facilities Command (NAVFAC) Washington, DC, USA	<i>Alternate</i>
<b>D. Griefenhagen</b>	International Union of Elevator Constructors Hugo, Minnesota, USA	<i>Alternate</i>
<b>J. D. Henderson</b>	TK Elevator Middleton, Tennessee, USA	<i>Alternate</i>
<b>N. Imbimbo</b>	Prysmian Group Casale Monferrato, Piedmont, Italy	<i>Alternate</i>
<b>L. Metzinger</b>	Alimak Group USA Inc. Houston, Texas, USA	<i>Alternate</i>
<b>D. Morris</b>	California Division of Occupational Safety and Health Monrovia, California, USA	<i>Alternate</i>
<b>S. P. Reynolds</b>	The Peelle Co. Ltd. Brampton, Ontario, Canada	<i>Alternate</i>
<b>C. Romero</b>	Motion Control Engineering Inc. Rancho Cordova, California, USA	<i>Alternate</i>
<b>P. S. Rosenberg</b>	Performance Elevator Consulting LLC Milwaukee, Wisconsin, USA	<i>Alternate</i>

<b>A. Shelton</b>	KONE Inc. Allen, Texas, USA	<i>Alternate</i>
<b>J. L. Stabler</b>	Stabler Associates Inc. St. Louis, Missouri, USA	<i>Alternate</i>
<b>H. M. Vyas</b>	VDA Inc. New York, New York, USA	<i>Alternate</i>
<b>G. Lee</b>	CSA Group Toronto, Ontario, Canada	<i>Project Manager</i>

ASMENORMDOC.COM : Click to view the full PDF of ASME A17.5 CSA B44.1 2025

# CSA B44.1/ASME A17.5 Joint Committee on Elevator and Escalator Electrical Equipment

<b>M. Mueller</b>	TK Elevator Memphis, Tennessee, USA	<i>Chair</i>
<b>M. Mihai</b>	Technical Standards and Safety Authority (TSSA) Toronto, Ontario, Canada	<i>Vice-Chair</i>
<b>J. Aitamurto</b>	KONE Corp. Hyvinkaa, Finland	
<b>P. D. Barnhart</b>	Underwriters Laboratories Inc. Research Triangle Park, North Carolina, USA	
<b>G. A. Burdeshaw</b>	American Society of Mechanical Engineers (ASME) New York, New York, USA	
<b>J. D. Busse</b>	Fujitec America Inc. Mason, Ohio, USA	
<b>C. Castro</b>	Otis Elevator Co. Florence, South Carolina, USA	
<b>T. Evans</b>	UL Solutions Toronto, Ontario, Canada	<i>Non-voting</i>
<b>S. Feng</b>	Shanghai Institute of Special Equipment Inspection and Technical Research Shanghai, China	
<b>S. Kalola</b>	TK Elevator Atlanta, Georgia, USA	
<b>J. F. Kleine</b>	Otis Elevator Co. Farmington, Connecticut, USA	
<b>J. Ko</b>	KONE Inc. Allen, Texas, USA	<i>Non-voting</i>