
# INFO UPDATE

## Volume 8 — November/December 2009

### Issue date: December 16, 2009

Info Update, 2009 No. 8
ISSN 1182-0187

**December 16, 2009**

## Canadian Standards Association

*Making Standards Work for People and Business*

The **Canadian Standards Association** has been a leader in standards development since 1919. Accredited by the Standards Council of Canada, we have published over 2000 standards for the safety, design and performance of a wide range of products and services. Many of our standards are cited in legislation at federal, provincial, state and municipal levels across North America. Many are internationally or regionally harmonized. All of our standards are the result of the knowledge and expertise of our members who develop the standards.

Our 9,000+ members are at the heart of the CSA process for the development of standards. They come from all walks of life and include scientists, academics, environmentalists and technicians. They represent government, industry, labour and consumers. All CSA standards are developed following principles of consensus, so that all viewpoints receive a fair hearing with no one interest group dominating.

There are two different types of membership; volunteer committee membership and sustaining membership. Our committee members contribute time and expertise to the process of standards development, and our sustaining members support this work through the payment of annual dues.

CSA is funded through the sale of information products, membership, and from interested stakeholders.

At the Canadian Standards Association, we know the power of standards to effect change and are committed to making standards work for people and business.

For more than 80 years, the Canadian Standards Association has developed standards to create a better, safer world – and we will continue to touch people's lives in positive ways for many years to come.

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# Using *Info Update*

## About this publication

*Info Update* is published by the Canadian Standards Association (CSA) eight times a year. It contains important information about new and existing standards, e.g., recently published standards, and withdrawn standards. It also gives you highlights of other activities and services.

CSA offers a free online service called *Keep Me Informed* that will notify registered users when each new issue of *Info Update* is published. To register go to http://www.csa-intl.org/onlinestore/KeepMeInformed/PleaseIdentifyYourself.asp?Language=EN.

Information is organized into the eight program areas listed below.

**Communications/Information** includes Information Technology • Telecommunications

**Construction Products & Materials** includes Building Products • Building Systems (Industrialized Buildings) • Concrete • Forest Products • Masonry • National Construction Codes • Offshore Structures • Plumbing Products and Materials • Structures (Design) • Welding and Structural Metals

**Electrical/Electronics** includes the Canadian Electrical Code, Part I • Canadian Electrical Code, Part II – General Requirements • Canadian Electrical Code, Part II – Consumer and Commercial Products, Industrial Products, and Wiring Products • Canadian Electrical Code Part III – Outside Wiring • Electrical Engineering Standards • Electromagnetic Compatibility

**Energy** includes Fire Safety and Fuel Burning Equipment • Nuclear • Oil and Gas Industry Systems and Materials • Performance, Energy Efficiency and Renewables

**Environment** includes Environmental Management • Environmental Technology

**Gas Equipment** includes Natural Gas and Propane Installation Codes • Natural Gas and Propane Vehicle Fuel Systems and Industrial Engines • Accessories • Domestic and Commercial Water Heaters and Boilers • Food Processing and Food Refrigeration • Gas Fired Domestic and Commercial Heating Equipment and Air Conditioning • Incineration • Large Input Commercial and Industrial Equipment (Over 400,000 Btu/H) • Laundry Equipment • Performance Test Methods • Portable-Type Camping Equipment • Gas Technician Training Materials

**Life Sciences** includes Community Safety and Well-being • Health Care Technology • Mechanical Industrial Equipment • Occupational Health & Safety

**Quality/Business Management** includes Basic Engineering • Public Involvement • Quality Assurance • Quality Auditing • Quality Management • Reliability • Risk Management

## What you'll find

Within each program, information is organized into the following sections:

# *Completed Projects / Projets terminés*

### New Standards — New Editions — Special Publications

This section lists new standards, new editions (including adoptions), and special publications that have been published since the last issue of *Info Update*. To place your order call 1-800-463-6727 or visit our Online Store at http://www.csa.ca. Prices shown are quoted in Canadian dollars and do not include applicable taxes or shipping charges. Our office locations are listed at the end of this document.

### Nouvelles normes — Nouvelles éditions — Publications spéciales publiées en français

Cette section énumère les nouvelles normes et éditions (y compris les normes adoptées) ainsi que les publications spéciales qui ont paru depuis la dernière livraison du bulletin Info-Update. Pour commander, composez le 1 800 463-6727 ou visitez notre Boutique en ligne, au http://www.csa.ca. Les prix sont indiqués en dollars canadiens et ne comprennent pas les taxes pertinentes ni les frais d'expédition. La liste de nos bureaux est présentée à la fin de ce document.

### Amendments

Amendments are issued periodically for some standards. This section lists amendments that have been published since the last issue of *Info Update*. Most amendments are made available to the purchaser free of charge by returning the update notification card included in the standard or registering online for the update service through the Online Store at http://www.csa.ca and clicking on "*My Account*" on the navigation bar. Amendments developed by other standards development organizations, and adopted by CSA are made available for a fee. The prices shown are quoted in Canadian dollars and do not include applicable taxes or shipping charges.

### Modifications publiées en français

Dans le cas de certaines normes, des modifications sont publiées à intervalles réguliers. Cette section présente la liste des modifications publiées depuis la dernière livraison du bulletin *Info-Update*. La plupart des modifications étant offertes gratuitement, vous n'avez qu'à remplir et à nous retourner la carte d'avis de mise à jour incluse avec chaque norme. Vous pouvez également vous inscrire en direct à notre service de mise à jour en vous rendant à la Boutique en ligne, au http://www.csa.ca, et en cliquant sur le bouton « Mon compte » de la barre de navigation. Des frais s'appliquent toutefois aux modifications élaborées par d'autres organismes de normalisation et adoptées par la CSA. Les prix sont indiqués en dollars canadiens et ne comprennent pas les taxes pertinentes ni les frais d'expédition.

### Adopted Standards

Adopted standards have been developed by another standards development organization and have been approved by our technical committee for use in Canada, with or without modification. They are available for sale from CSA. You will find published adopted standards listed under "*New Standards — New Editions — Special Publications*."

### Endorsed Standards

Endorsed standards have been developed by another standards development organization, and have been approved by the appropriate CSA technical committee for use in Canada.

Endorsed standards are not sold by CSA.

For copies, contact the originating organization or Global Info Centre Canada at 1-800-854-7179 or 613-237-4250; *fax* 613-237-4251; *e-mail* gic@ihscanada.ca; *Web site* http://www.global.ihs.com.

# *Completed Projects (cont'd) / Projets terminés (suite)*

### Reaffirmed Standards

The standards listed in this section have been reviewed to determine if they remain technically valid and are acceptable for use until the next edition is published or for a further five years.

### Withdrawn Standards

The standards listed in this section have been withdrawn. Most withdrawn standards are available from our archived collection. Some copies may not be in original format.

To order, call toll-free 1-800-463-6727 (in Toronto, 416-747-4044).

### Formal Interpretations

This section lists questions that individuals have submitted about a particular standard. Each question has been reviewed and answered by the appropriate committee. If you would like to submit a question about a particular standard, please see the end notes in the preface of that standard.

# *Under Development*

The *Under Development* section formerly published in *Info Update* is now available directly on the CSA website. This enhancement allows us to provide you with these important notifications on a more timely basis. To visit the new "Current Standards Activities" page, go to: http://standardsactivities.csa.ca/standardsactivities/default.asp?language=en.

# *Certification and Testing (CSA International)*

### Informs Notices (Bulletins from CSA International)

An *Informs* is a notice containing information only. It does not contain anything that would require you to resubmit products for certification. If you would like a copy of an *Informs* notice, call CSA International at 416-747-4171, or fax 416-747-2476.

### Certification Notices

Certification notices inform you about changes that would require a product to be resubmitted for certification or about critical factors that may affect a product's certification. Products must comply with the changed requirements by the effective dates given.

CSA certification and testing clients receive these notices automatically. If you did not receive a copy or would like to receive one, call CSA International at 416-747-2488, or fax 416-747-4173.

# New Standards in this Issue

## Communications/Information

CAN/CSA-ISO/IEC 7811-6-09, 3rd edition
*Identification cards — Recording technique — Part 6: Magnetic stripe — High coercivity*
(Adopted ISO/IEC 7811-6:2008)

CAN/CSA-ISO/IEC 9075-1-09, 3rd edition
*Information technology — Database languages — SQL — Part 1: Framework (SQL/Framework)* (Adopted ISO/IEC 9075-1:2008)

CAN/CSA-ISO/IEC 9075-2-09, 3rd edition
*Information technology — Database languages — SQL — Part 2: Foundation (SQL/Foundation)* (Adopted ISO/IEC 9075-2:2008)

CAN/CSA-ISO/IEC 9075-3-09, 4th edition
*Information technology — Database languages — SQL — Part 3: Call-Level Interface (SQL/CLI)* (Adopted ISO/IEC 9075-3:2008)

CAN/CSA-ISO/IEC 9075-4-09, 3rd edition
*Information technology — Database languages — SQL — Part 4: Persistent Stored Modules (SQL/PSM)* (Adopted ISO/IEC 9075-4:2008)

CAN/CSA-ISO/IEC 9075-9-09, 3rd edition
*Information technology — Database languages — SQL — Part 9: Management of External Data (SQL/MED)* (Adopted ISO/IEC 9075-9:2008)

CAN/CSA-ISO/IEC 9075-10-09, 3rd edition
*Information technology — Database languages — SQL — Part 10: Object Language Bindings (SQL/OLB)* (Adopted ISO/IEC 9075-10:2008)

CAN/CSA-ISO/IEC 9075-11-09, 1st edition
*Information technology — Database languages — SQL — Part 11: Information and Definition Schemas (SQL/Schemata)* (Adopted ISO/IEC 9075-11:2008)

CAN/CSA-ISO/IEC 9075-13-09, 3rd edition
*Information technology — Database languages — SQL — Part 13: SQL Routines and Types Using the Java™ Programming Language (SQL/JRT)*
(Adopted ISO/IEC 9075-13:2008)

CAN/CSA-ISO/IEC 9075-14-09, 2nd edition
*Information technology — Database languages — SQL — Part 14: XML-Related Specifications (SQL/XML)* (Adopted ISO/IEC 9075-14:2008)

CAN/CSA-ISO/IEC 10373-7-09, 2nd edition
*Identification cards — Test methods — Part 7: Vicinity cards*
(Adopted ISO/IEC 10373-7:2008)

## Communications/Information (cont'd)

CAN/CSA-ISO/IEC 11694-3-09, 3rd edition
*Identification cards — Optical memory cards — Linear recording method — Part 3: Optical properties and characteristics* (Adopted ISO/IEC 11694-3:2008)

CAN/CSA-ISO/IEC 11694-4-09, 3rd edition
*Identification cards — Optical memory cards — Linear recording method — Part 4: Logical data structures* (Adopted ISO/IEC 11694-4:2008)

CAN/CSA-ISO/IEC 11770-2-09, 2nd edition
*Information technology — Security techniques — Key management — Part 2: Mechanisms using symmetric techniques* (Adopted ISO/IEC 11770-2:2008)

CAN/CSA-ISO/IEC 11770-3-09, 2nd edition
*Information technology — Security techniques — Key management — Part 3: Mechanisms using asymmetric techniques* (Adopted ISO/IEC 11770-3:2008)

CAN/CSA-ISO/IEC 12207-09, 2nd edition
*Systems and software engineering — Software life cycle processes*
(Adopted ISO/IEC 12207:2008)

CAN/CSA-ISO/IEC 14102-09, 2nd edition
*Information technology — Guideline for the evaluation and selection of CASE tools*
(Adopted ISO/IEC 14102:2008)

CAN/CSA-ISO/IEC 14443-1-09, 2nd edition
*Identification cards — Contactless integrated circuit cards — Proximity cards — Part 1: Physical characteristics* (Adopted ISO/IEC 14443-1:2008)

CAN/CSA-ISO/IEC 14443-4-09, 2nd edition
*Identification cards — Contactless integrated circuit cards — Proximity cards — Part 2: Transmission protocol* (Adopted ISO/IEC 14443-4:2008)

CAN/CSA-ISO/IEC TR 14496-9-09, 2nd edition
*Information technology — Coding of audio-visual objects — Part 9: Reference hardware description* (Adopted ISO/IEC TR 14496-9:2009)

CAN/CSA-ISO/IEC 14496-10-09, 2nd edition
*Information technology — Coding of audio-visual objects — Part 10: Advanced video coding* (Adopted ISO/IEC 14496-10:2008)

CAN/CSA-ISO/IEC 14496-12-09, 3rd edition
*Information technology — Coding of audio-visual objects — Part 12: ISO base media file format* (Adopted ISO/IEC 14496-12:2008)

CAN/CSA-ISO/IEC 14496-20-09, 2nd edition
*Information technology — Coding of audio-visual objects — Part 20: Lightweight Application Scene Representation (LASeR) and Simple Aggregation Format (SAF)*
(Adopted ISO/IEC 14496-20:2008)

## Communications/Information (cont'd)

CAN/CSA-ISO/IEC 14888-2-09, 2nd edition
*Information technology — Security techniques — Digital signatures with appendix — Part 2: Integer factorization based mechanisms* (Adopted ISO/IEC 14888-2:2008)

CAN/CSA-ISO/IEC 15288-09, 2nd edition
*Systems and software engineering — System life cycle processes* (Adopted ISO/IEC 15288:2008)

CAN/CSA-ISO/IEC 15408-2-09, 3rd edition
*Information technology — Security techniques — Evaluation criteria for IT security — Part 2: Security functional components* (Adopted ISO/IEC 15408-2:2008)

CAN/CSA-ISO/IEC 15408-3-09, 3rd edition
*Information technology — Security techniques — Evaluation criteria for IT security — Part 3: Security assurance components* (Adopted ISO/IEC 15408-3:2008)

CAN/CSA-ISO/IEC 15424-09, 2nd edition
*Information technology — Automatic identification and data capture techniques — Data Carrier Identifiers (including Symbology Identifiers)*
(Adopted ISO/IEC 15424:2008)

CAN/CSA-ISO/IEC 15457-1-09, 2nd edition
*Identification cards — Thin flexible cards — Part 1: Physical characteristics*
(Adopted ISO/IEC 15457-1:2008)

CAN/CSA-ISO/IEC 15457-3-09, 2nd edition
*Identification cards — Thin flexible cards — Part 3: Test methods*
(Adopted ISO/IEC 15457-3:2008)

CAN/CSA-ISO/IEC 15459-4-09, 2nd edition
*Information technology — Unique identifiers — Part 4: Individual items*
(Adopted ISO/IEC 15459-4:2008)

CAN/CSA-ISO/IEC 15946-1-09, 2nd edition
*Information technology — Security techniques — Cryptographic techniques based on elliptic curves — Part 1: General* (Adopted ISO/IEC 15946-1:2008)

CAN/CSA-ISO/IEC 18000-1-09, 2nd edition
*Information technology — Radio frequency identification for item management — Part 1: Reference architecture and definition of parameters to be standardized*
(Adopted ISO/IEC 18000-1:2008)

CAN/CSA-ISO/IEC 18000-3-09, 2nd edition
*Information technology — Radio frequency identification for item management — Part 3: Parameters for air interface communications at 13,56 MHz*
(Adopted ISO/IEC 18000-3:2008)

## Communications/Information (cont'd)

CAN/CSA-ISO/IEC 18000-4-09, 2nd edition
*Information technology — Radio frequency identification for item management — Part 4: Parameters for air interface communications at 2,45 GHz*
(Adopted ISO/IEC 18000-4:2008)

CAN/CSA-ISO/IEC 18014-1-09, 2nd edition
*Information technology — Security techniques — Time-stamping services — Part 1: Framework* (Adopted ISO/IEC 18014-1:2008)

CAN/CSA-ISO/IEC TR 18037-09, 2nd edition
*Programming languages — C — Extensions to support embedded processors*
(Adopted ISO/IEC TR 18037:2008)

CAN/CSA-ISO/IEC 18045-09, 2nd edition
*Information technology — Security techniques — Methodology for IT security evaluation*
(Adopted ISO/IEC 18045:2008)

CAN/CSA-ISO/IEC 19757-8-09, 1st edition
*Information technology — Document Schema Definition Languages (DSDL) — Part 8: Document Semantics Renaming Language (DSRL)*
(Adopted ISO/IEC 19757-8:2008)

CAN/CSA-ISO/IEC 19757-9-09, 1st edition
*Information technology — Document Schema Definition Languages (DSDL) — Part 9: Namespace and datatype declaration in Document Type Definitions (DTDs)*
(Adopted ISO/IEC 19757-9:2008)

CAN/CSA-ISO/IEC 19762-1-09, 2nd edition
*Information technology — Automatic identification and data capture (AIDC) techniques — Harmonized vocabulary — Part 1: General terms relating to AIDC*
(Adopted ISO/IEC 19762-1:2008)

CAN/CSA-ISO/IEC 19762-2-09, 2nd edition
*Information technology — Automatic identification and data capture (AIDC) techniques — Harmonized vocabulary — Part 2: Optically readable media (ORM)*
(Adopted ISO/IEC 19762-2:2008)

CAN/CSA-ISO/IEC 19762-3-09, 2nd edition
*Information technology — Automatic identification and data capture (AIDC) techniques — Harmonized vocabulary — Part 3: Radio frequency identification (RFID)*
(Adopted ISO/IEC 19762-3:2008)

## Communications/Information (cont'd)

CAN/CSA-ISO/IEC 21000-8-09, 2nd edition
*Information technology — Multimedia framework (MPEG-21) — Part 8: Reference software* (Adopted ISO/IEC 21000-8:2008)

CAN/CSA-ISO/IEC 21827-09, 2nd edition
*Information technology — Security techniques — Systems Security Engineering — Capability Maturity Model® (SSE-CMM®)* (Adopted ISO/IEC 21827:2008)

CAN/CSA-ISO/IEC 24754-09, 1st edition
*Information technology — Document description and processing languages — Minimum requirements for specifying document rendering systems*
(Adopted ISO/IEC 24754:2008)

CAN/CSA-ISO/IEC 27005-09, 1st edition
*Information technology — Security techniques — Information security risk management*
(Adopted ISO/IEC 27005:2008)

## Construction Products and Materials

A257 Series-09, 5th edition
*Standards for Concrete Pipe and Manhole Sections*

B137 Series-09, 4th edition
*Thermoplastic Pressure Piping Compendium*

## Electrical/Electronics

C22.2 No. 239-09, 3rd edition
*Control and Instrumentation Cables*

C22.2 No. 253-09, 1st edition
*Medium-Voltage AC Contactors, Controllers, and Control Centres* (tri-national standard with NMX-J-564/106-ANCE, first edition, and UL 347, fifth edition)

CAN/CSA-C22.2 No. 60745-2-16-09, 1st edition
*Hand-held motor-operated electric tools — Safety — Part 2-16: Particular requirements for tackers* (bi-national standard with UL 60745-2-16, first edition. Adopted IEC 60745-2-16:2008, second edition, without modification)

C310-09, 1st edition
*Distribution Class Polymeric Cutouts*

## Energy

C747-09, 4th edition
*Energy Efficiency Test Methods for Small Motors*

C862-09, 4th edition
*Performance of Incandescent Reflector Lamps*

N286.7.1-09, 1st edition
*Guideline for the application of N286.7-99, "Quality assurance of analytical, scientific, and design computer programs for nuclear power plants"*

N287.4-09, 4th edition
*Construction, Fabrication, and Installation Requirements for Concrete Containment Structures for CANDU Nuclear Power Plants*

## Énergie

C815-09, 4e édition
*Rendement énergétique des refroidisseurs d'eau potable*

N287.4-09, 4e édition
*Exigences relatives à la construction, à la fabrication et à l'installation des enceintes de confinement en béton des centrales nucléaires CANDU*

Z246.1-09, 1re édition
*Gestion de la sûreté des installations liées à l'industrie du pétrole et du gaz naturel*

## Life Sciences

CAN/CSA-C22.2 No. 60601-1-3-09, 2nd edition (bilingual)
*Medical electrical equipment — Part 1-3: General requirements for basic safety and essential performance — Collateral standard: Radiation protection in diagnostic X-ray equipment* (Adopted IEC 60601-1:2008, second edition, without modification)

CAN/CSA-C22.2 No. 60601-1-10-09, 1st edition (bilingual)
*Medical electrical equipment — Part 1-10: General requirements for basic safety and essential performance — Collateral Standard: Requirements for the development of physiologic closed-loop controllers* (Adopted IEC 60601-1-10:2007, first edition, without modification)

CAN/CSA-C22.2 No. 60601-2-2-09, 4th edition (bilingual)
*Medical electrical equipment — Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories* (Adopted IEC 60601-2-2:2009, fifth edition, without modification)

## Life Sciences (cont'd)

CAN/CSA-C22.2 No. 60601-2-16-09, 3rd edition
*Medical electrical equipment — Part 2-16: Particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment* (Adopted IEC 60601-2-16:2008, third edition, without modification)

CAN/CSA-C22.2 No. 60601-2-19-09, 2nd edition (bilingual)
*Medical electrical equipment — Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators* (Adopted IEC 60601-2-19:2009, second edition, without modification)

CAN/CSA-C22.2 No. 60601-2-31-09, 2nd edition (bilingual)
*Medical electrical equipment — Part 2-31: Particular requirements for the basic safety and essential performance of external cardiac pacemakers with internal power source* (Adopted IEC 60601-2-31:2008, second edition, without modification)

CAN/CSA-C22.2 No. 60601-2-39-09, 2nd edition (bilingual)
*Medical electrical equipment — Part 2-39: Particular requirements for basic safety and essential performance of peritoneal dialysis equipment* (Adopted IEC 60601-2-39:2007, second edition, without modification)

G4-09, 7th edition
*Steel Wire Rope for General Purpose and for Mine Hoisting and Mine Haulage*

CAN/CSA-M3463-09, 1st edition
*Tractors for agriculture and forestry — Roll-over protective structures (ROPS) — Dynamic test method and acceptance conditions* (Adopted ISO 3463:2006, fourth edition, without modification)

CAN/CSA-M5700-09, 1st edition
*Tractors for agriculture and forestry — Roll-over protective structures (ROPS) — Static test method and acceptance conditions* (Adopted ISO 5700:2006, fourth edition, without modification)

CAN/CSA-M12003-1-09, 1st edition
*Agricultural and forestry tractors — Roll-over protective structures on narrow-track wheeled tractors — Part 1: Front-mounted ROPS* (Adopted ISO 12003-1:2008, second edition, without modification)

CAN/CSA-M12003-2-09, 1st edition
*Agricultural and forestry tractors — Roll-over protective structures on narrow-track wheeled tractors — Part 2: Rear-mounted ROPS* (Adopted ISO 12003-2:2008, second edition, without modification)

Z151-09, 1st edition
*Concrete Pumps and Placing Booms*

Z195-09, 6th edition
*Protective Footwear*

## Life Sciences (cont'd)

CAN/CSA-Z15882-09, 2nd edition
*Sterilization of health care products — Chemical indicators — Guidance for selection, use and interpretation of results* (Adopted ISO 15882:2008, second edition, without modification)

CAN/CSA-Z17665-2-09, 1st edition
*Sterilization of health care products — Moist heat — Part 2: Guidance on the application of ISO 17665-1* (Adopted ISO/TS 17665-2:2009, first edition, without modification)

## Sciences de la Vie

B339-08, 5e édition
*Bouteilles à gaz cylindriques et sphériques et tubes pour le transport des marchandises dangereuses*

B352.0-09, 2e édition
*Structures de protection contre le retournement (ROPS), structures de protection contre les chutes d'objets (FOPS), structures de protection de l'opérateur (OPS) et structures de protection contre le basculement (TOPS) pour engins mobiles — Exigences canadiennes générales*

B355-09, 5e édition
*Appareils élévateurs pour personnes handicapées*

B651.1-09, 2e édition
*Conception accessible des guichets automatiques bancaires*

CAN/CSA-C22.2 n° 60601-1-3-09, 2e édition (bilingue)
*Appareils électromédicaux — Partie 1-3 : Exigences générales pour la sécurité de base et les performances essentielles — Norme collatérale : Radioprotection dans les appareils à rayonnement X de diagnostic* (norme IEC 60601-1-3:2008, deuxième édition, adoptée sans modifications)

CAN/CSA-C22.2 n° 60601-1-10-09, 1re édition (bilingue)
*Appareils électromédicaux — Partie 1-10 : Exigences générales pour la sécurité de base et les performances essentielles — Norme collatérale : Exigences pour le développement des régulateurs physiologiques en boucle fermée* (norme IEC 60601-1-10:2007, première édition, adoptée sans modifications)

CAN/CSA-C22.2 n° 60601-2-2-09, 4e édition (bilingue)
*Appareils électromédicaux — Partie 2-2 : Exigences particulières pour la sécurité de base et les performances essentielles des appareils d'électrochirurgie à courant haute fréquence et des accessoires d'électrochirurgie à courant haute fréquence* (norme IEC 60601-2-2:2009, cinquième édition, adoptée sans modifications)

## Sciences de la Vie (suite)

CAN/CSA-C22.2 n° 60601-2-19-09, 2e édition (bilingue)
*Appareils électromédicaux — Partie 2-19 : Exigences particulières pour la sécurité de base et les performances essentielles des incubateurs pour nouveau-nés* (norme IEC 60601-2-19:2009, deuxième édition, adoptée sans modifications)

CAN/CSA-C22.2 n° 60601-2-31-09, 2e édition (bilingue)
*Appareils électromédicaux — Partie 2-31 : Exigences particulières pour la sécurité de base et les performances essentielles des stimulateurs cardiaques externes à source d'énergie interne* (norme IEC 60601-2-31:2008, deuxième édition, adoptée sans modifications)

CAN/CSA-C22.2 n° 60601-2-39-09, 2e édition (bilingue)
*Appareils électromédicaux — Partie 2-39 : Exigences particulières pour la sécurité de base et les performances essentielles des appareils de dialyse péritonéale* (norme IEC 60601-2-39:2007, deuxième édition, adoptée sans modifications)

CAN/CSA-M3463-09, 1re édition
*Tracteurs agricoles et forestiers — Structures de protection contre le retournement (ROPS) — Méthode d'essai dynamique et conditions d'acceptation* (norme ISO 3463:2006, quatrième édition, adoptée sans modifications)

CAN/CSA-M5700-09, 1re édition
*Tracteurs agricoles et forestiers — Structures de protection contre le retournement (ROPS) — Méthode d'essai statique et conditions d'acceptation* (norme ISO 5700:2006, quatrième édition, adoptée sans modifications)

CAN/CSA-M12003-1-09, 1re édition
*Tracteurs agricoles et forestiers — Structures de protection contre le retournement (ROPS) pour tracteurs à roues à voie étroite — Partie 1 : ROPS montées à l'avant* (norme ISO 12003-1:2008, deuxième édition, adoptée sans modifications)

CAN/CSA-M12003-2-09, 1re édition
*Tracteurs agricoles et forestiers — Structures de protection contre le retournement (ROPS) pour tracteurs à roues à voie étroite — Partie 2 : ROPS montées à l'arrière* (norme ISO 12003-2:2008, deuxième édition, adoptée sans modifications)

Z262.2-09, 4e édition
*Protecteurs faciaux de hockey sur glace*

CAN/CSA-Z17665-2-09, 1re édition
*Stérilisation des produits de santé — Chaleur humide — Partie 2 : Directives relatives à l'application de l'ISO 17665-1* (norme ISO/TS 17665-2:2009, première édition, adoptée sans modifications)

# Completed Projects / Projets terminés

## New Standards — New Editions — Special Publications

**Please note**: The following standards were developed by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC), and have been adopted by the Canadian Standards Association. These standards are available in Portable Document Format (PDF) only.

**CAN/CSA-ISO/IEC 7811-6-09, 3rd edition**
*Identification cards — Recording technique — Part 6: Magnetic stripe — High coercivity*
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(Adopted Technical Corrigendum 3:2008 to ISO/IEC 1539-1:2004)

**CAN/CSA-ISO/IEC 7816-4A-06**
*Amendment 1:2009, "Record activation and deactivation," to CAN/CSA-ISO/IEC 7816-4-06, "Identification cards — Integrated circuit cards — Part 4: Organization, security and commands for interchange"* (Adopted Amendment 1:2008 to ISO/IEC 7816-4:2005) ..... $15

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*Amendment 1:2009 to CAN/CSA-ISO/IEC 8652-96, "Information technology — Programming languages — Ada"* (Adopted Amendment 1:2007 to ISO/IEC 8652:1995) ..... $295

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*Amendment 4:2009, "PER encoding instructions," to CAN/CSA-ISO/IEC 8824-1-04, "Information technology — Abstract Syntax Notation One (ASN.1): Specification of basic notation"* (Adopted Amendment 4:2008 to ISO/IEC 8824-1:2002) ..... $15

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*Amendment 1:2009, "Efficiency enhancements," to CAN/CSA-ISO/IEC 8825-5-05, "Information technology — ASN.1 encoding rules: Mapping W3C XML schema definitions into ASN.1"* (Adopted Amendment 1:2008 to ISO/IEC 8825-5:2004) ..... $160

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*Technical Corrigendum 3:2009 to CAN/CSA-ISO/IEC 11801:04, "Information technology — Generic cabling for customer premises"* (Adopted Technical Corrigendum 3:2008 to ISO/IEC 11801:2002)

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*Technical Corrigendum 1:2009 to CAN/CSA-ISO/IEC 13818-1:08, "Information technology — Generic coding of moving pictures and associated audio information: Systems"* (Adopted Technical Corrigendum 1:2008 to ISO/IEC 13818-1:2007)

**CAN/CSA-ISO/IEC 13818-1B-08**
*Amendment 2:2009, "Carriage of auxiliary video streams," to CAN/CSA-ISO/IEC 13818-1-08, "Information technology — Generic coding of moving pictures and associated audio information: Systems"* (Adopted Amendment 2:2008 to ISO/IEC 13818-1:2007) ..... $45

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*Amendment 1:2009 to CAN/CSA-ISO/IEC 14165-122-06, "Information technology — Fibre channel — Part 122: Arbitrated loop-2 (FC-AL-2)"* (Adopted Amendment 1:2008 to ISO/IEC 14165-122:2005) ..... $50

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*Technical Corrigendum 3:2009 to CAN/CSA-ISO/IEC 14496-2:05, "Information technology — Coding of audio-visual objects — Part 2: Visual"* (Adopted Technical Corrigendum 3:2008 to ISO/IEC 14496-2:2004)

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**CAN/CSA-ISO/IEC 14496-2C:05 TC 1**
*Technical Corrigendum 1:2009 to Amendment 3:2008, "Support for colourspaces," to CAN/CSA-ISO/IEC 14496-2:05, "Information technology — Coding of audio-visual objects — Part 2: Visual"* (Adopted Technical Corrigendum 1:2008 to Amendment 3:2007 to ISO/IEC 14496-2:2004)

**CAN/CSA-ISO/IEC 14496-2D-05**
*Amendment 4:2009, "Simple profile level 6," to CAN/CSA-ISO/IEC 14496-2-05, "Information technology — Coding of audio-visual objects — Part 2: Visual"*
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**CAN/CSA-ISO/IEC 14496-3:06 TC 2**
*Technical Corrigendum 2:2009 to CAN/CSA-ISO/IEC 14496-3:06, "Information technology — Coding of audio-visual objects — Part 3: Audio"* (Adopted Technical Corrigendum 2:2008 to ISO/IEC 14496-3:2005)

**CAN/CSA-ISO/IEC 14496-3:06 TC 3**
*Technical Corrigendum 3:2009 to CAN/CSA-ISO/IEC 14496-3:06, "Information technology — Coding of audio-visual objects — Part 3: Audio"* (Adopted Technical Corrigendum 3:2008 to ISO/IEC 14496-3:2005)

**CAN/CSA-ISO/IEC 14496-3:06 TC 4**
*Technical Corrigendum 4:2009 to CAN/CSA-ISO/IEC 14496-3:06, "Information technology — Coding of audio-visual objects — Part 3: Audio"* (Adopted Technical Corrigendum 4:2008 to ISO/IEC 14496-3:2005)

**CAN/CSA-ISO/IEC 14496-3:06 TC 5**
*Technical Corrigendum 5:2009 to CAN/CSA-ISO/IEC 14496-3:06, "Information technology — Coding of audio-visual objects — Part 3: Audio"* (Adopted Technical Corrigendum 5:2008 to ISO/IEC 14496-3:2005)

**CAN/CSA-ISO/IEC 14496-3H-06**
*Amendment 8:2009, "MP4FF box for original audio file information," to CAN/CSA-ISO/IEC 14496-3-06, "Information technology — Coding of audio-visual objects — Part 3: Audio"* (Adopted Amendment 8:2008 to ISO/IEC 14496-3:2005) ..... $15

**CAN/CSA-ISO/IEC 14496-3I-06**
*Amendment 9:2009, "Enhanced low delay AAC," to CAN/CSA-ISO/IEC 14496-3-06, "Information technology — Coding of audio-visual objects — Part 3: Audio"*
(Adopted Amendment 9:2008 to ISO/IEC 14496-3:2005) ..... $150

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*Technical Corrigendum 3:2009 to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"*
(Adopted Technical Corrigendum 3:2006 to ISO/IEC 14496-4:2004)

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**CAN/CSA-ISO/IEC 14496-4:06 TC 4**
*Technical Corrigendum 4:2009 to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Technical Corrigendum 4:2008 to ISO/IEC 14496-4:2004)

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*Technical Corrigendum 5:2009 to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Technical Corrigendum 5:2008 to ISO/IEC 14496-4:2004)

**CAN/CSA-ISO/IEC 14496-4A:06 TC 2**
*Technical Corrigendum 2:2009 to Amendment 1:2006, "Conformance testing for MPEG-4," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Technical Corrigendum 2:2008 to Amendment 1:2005 to ISO/IEC 14496-4:2004)

**CAN/CSA-ISO/IEC 14496-4H:06 TC 1**
*Technical Corrigendum 1:2009 to Amendment 8:2006, "High Efficiency Advanced Audio Coding, audio BIFS, and structured audio conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Technical Corrigendum 1:2008 to Amendment 8:2005 to ISO/IEC 14496-4:2004)

**CAN/CSA-ISO/IEC 14496-4K:06 TC 1**
*Technical Corrigendum 1:2009 to Amendment 11:2006, "Parametric stereo conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Technical Corrigendum 1:2008 to Amendment 11:2006 to ISO/IEC 14496-4:2004)

**CAN/CSA-ISO/IEC 14496-4K:06 TC 3**
*Technical Corrigendum 3:2009 to Amendment 11:2006, "Parametric stereo conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Technical Corrigendum 3:2008 to Amendment 11:2006 to ISO/IEC 14496-4:2004)

**CAN/CSA-ISO/IEC 14496-4M:06 TC 1**
*Technical Corrigendum 1:2009 to Amendment 13:2007, "Parametric coding for high quality audio conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Technical Corrigendum 1:2008 to Amendment 13:2007 to ISO/IEC 14496-4:2004)

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*Amendment 16:2009, "MPEG-J GFX conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 16:2008 to ISO/IEC 14496-4:2004) ..... $15

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**CAN/CSA-ISO/IEC 14496-4S:06 TC 1**
*Technical Corrigendum 1:2009 to Amendment 19:2008, "Audio lossless coding," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Technical Corrigendum 1:2008 to Amendment 19:2007 to ISO/IEC 14496-4:2004)

**CAN/CSA-ISO/IEC 14496-4T-06**
*Amendment 20:2009, "Scalable to lossless coding (SLS) conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 20:2008 to ISO/IEC 14496-4:2004)..... $15

**CAN/CSA-ISO/IEC 14496-4U-06**
*Amendment 21:2009, "Geometry and shadow conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 21:2008 to ISO/IEC 14496-4:2004)..... $15

**CAN/CSA-ISO/IEC 14496-4V-06**
*Amendment 22:2009, "AudioBIFS v3 conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 22:2008 to ISO/IEC 14496-4:2004) ..... $15

**CAN/CSA-ISO/IEC 14496-4W-06**
*Amendment 23:2009, "Synthesized texture conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 23:2008 to ISO/IEC 14496-4:2004) ..... $15

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*Amendment 24:2009, "File format conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 24:2008 to ISO/IEC 14496-4:2004) ..... $15

**CAN/CSA-ISO/IEC 14496-4Y-06**
*Amendment 25:2009, "LASeR and SAF conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 25:2008 to ISO/IEC 14496-4:2004) ..... $15

**CAN/CSA-ISO/IEC 14496-4Z-06**
*Amendment 26:2009, "Conformance levels and bitstreams for Open Font Format," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 26:2008 to ISO/IEC 14496-4:2004)..... $15

**CAN/CSA-ISO/IEC 14496-4AA-06**
*Amendment 27:2009, "LASeR and SAF extensions conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 27:2008 to ISO/IEC 14496-4:2004)..... $15

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**CAN/CSA-ISO/IEC 14496-4AB-06**
*Amendment 28:2009, "Conformance extensions for simple profile level 6," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 28:2008 to ISO/IEC 14496-4:2004)..... $15

**CAN/CSA-ISO/IEC 14496-4AC-06**
*Amendment 29:2009, "Symbolic Music Representation conformance," to CAN/CSA-ISO/IEC 14496-4:06, "Information technology — Coding of audio-visual objects — Part 4: Conformance testing"* (Adopted Amendment 29:2008 to ISO/IEC 14496-4:2004)..... $80

**CAN/CSA-ISO/IEC 14496-5J:05 TC 1**
*Technical Corrigendum 1:2009 to Amendment 10:2007, "SSC, DST, ALS and SLS reference software," to CAN/CSA-ISO/IEC 14496-5:06, "Information technology — Coding of audio-visual objects — Part 5: Reference software"* (Adopted Technical Corrigendum 1:2008 to Amendment 10:2007 to ISO/IEC 14496-5:2001)

**CAN/CSA-ISO/IEC 14496-5J:05 TC 2**
*Technical Corrigendum 2:2009 to Amendment 10:2007, "SSC, DST, ALS and SLS reference software," to CAN/CSA-ISO/IEC 14496-5:06, "Information technology — Coding of audio-visual objects — Part 5: Reference software"* (Adopted Technical Corrigendum 2:2008 to Amendment 10:2007 to ISO/IEC 14496-5:2001)

**CAN/CSA-ISO/IEC 14496-5M-06**
*Amendment 13:2009, "Geometry and shadow reference software," to CAN/CSA-ISO/IEC 14496-5:06, "Information technology — Coding of audio-visual objects — Part 5: Reference software"* (Adopted Amendment 13:2008 to ISO/IEC 14496-5:2001) ..... $15

**CAN/CSA-ISO/IEC 14496-5P-06**
*Amendment 16:2009, "Symbolic Music Representation reference software," to CAN/CSA-ISO/IEC 14496-5:06, "Information technology — Coding of audio-visual objects — Part 5: Reference software"* (Adopted Amendment 16:2008 to ISO/IEC 14496-5:2001) ..... $15

**CAN/CSA-ISO/IEC 14496-5Q-06**
*Amendment 17:2009, "Reference software for LASeR and SAF," to CAN/CSA-ISO/IEC 14496-5:06, "Information technology — Coding of audio-visual objects — Part 5: Reference software"* (Adopted Amendment 17:2008 to ISO/IEC 14496-5:2001) ..... $15

**CAN/CSA-ISO/IEC 14496-5R-06**
*Amendment 18:2009, "Reference software for new profiles for professional applications," to CAN/CSA-ISO/IEC 14496-5:06, "Information technology — Coding of audio-visual objects — Part 5: Reference software"* (Adopted Amendment 18:2008 to ISO/IEC 14496-5:2001)..... $15

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**CAN/CSA-ISO/IEC 14496-5T-06**
*Amendment 20:2009, "MPEG-1 and -2 on MPEG-4 reference software and BSAC extensions," to CAN/CSA-ISO/IEC 14496-5:06, "Information technology — Coding of audio-visual objects — Part 5: Reference software"* (Adopted Amendment 20:2009 to ISO/IEC 14496-5:2001) ..... $15

**CAN/CSA-ISO/IEC 14496-15B-05**
*Amendment 2:2009, "File format support for Scalable Video Coding (SVC)," to CAN/CSA-ISO/IEC 14496-15:05, "Information technology — Coding of audio-visual objects — Part 15: Advanced Video Coding (AVC) file format"* (Adopted Amendment 2:2008 to ISO/IEC 14496-15:2004)..... $135

**CAN/CSA-ISO/IEC 14496-16A:07 TC 1**
*Technical Corrigendum 1:2009 to Amendment 1:2008, "Geometry and shadow," to CAN/CSA-ISO/IEC 14496-16:07, "Information technology — Coding of audio-visual objects — Part 16: Animation Framework eXtension (AFX)"* (Adopted Technical Corrigendum 1:2008 to Amendment 1:2007 to ISO/IEC 14496-16:2006)

**CAN/CSA-ISO/IEC 14496-16A:07 TC 2**
*Technical Corrigendum 2:2009 to Amendment 1:2008, "Geometry and shadow," to CAN/CSA-ISO/IEC 14496-16:07, "Information technology — Coding of audio-visual objects — Part 16: Animation Framework eXtension (AFX)"* (Adopted Technical Corrigendum 2:2008 to Amendment 1:2007 to ISO/IEC 14496-16:2006)

**CAN/CSA-ISO/IEC 14496-16B-07**
*Amendment 2:2009, "Frame-based Animated Mesh Compression (FAMC)," to CAN/CSA-ISO/IEC 14496-16:07, "Information technology — Coding of audio-visual objects — Part 16: Animation Framework eXtension (AFX)"* (Adopted Amendment 2:2009 to ISO/IEC 14496-16:2006)..... $150

**CAN/CSA-ISO/IEC 14496-16C-07**
*Amendment 3:2009, "3D Multiresolution profile," to CAN/CSA-ISO/IEC 14496-16:07, "Information technology — Coding of audio-visual objects — Part 16: Animation Framework eXtension (AFX)"* (Adopted Amendment 3:2008 to ISO/IEC 14496-16:2006)..... $15

**CAN/CSA-ISO/IEC 15415:05 TC 1**
*Technical Corrigendum 1:2009 to CAN/CSA-ISO/IEC 15415:05, "Information technology — Automatic identification and data capture techniques — Bar code print quality test specification — Two-dimensional symbols"* (Adopted Technical Corrigendum 1:2008 to ISO/IEC 15415:2004)

**CAN/CSA-ISO/IEC 15426-2:07 TC 1**
*Technical Corrigendum 1:2009 to CAN/CSA-ISO/IEC 15426-2:07, "Information technology — Automatic identification and data capture techniques — Bar code verifier conformance specification — Part 2: Two-dimensional symbols"* (Adopted Technical Corrigendum 1:2008 to ISO/IEC 15426-2:2005)

## Amendments (cont'd)

**CAN/CSA-ISO/CEI 15444-1:05 TC 2**
*Technical Corrigendum 2:2009 to CAN/CSA-ISO/IEC 15444-1:05, "Information technology — JPEG 2000 image coding system: Core coding system"* (Adopted Technical Corrigendum 2:2008 to ISO/IEC 15444-1:2004)

**CAN/CSA-ISO/IEC 15938-5C-04**
*Amendment 3:2009, "Improvements to geographic descriptor," to CAN/CSA-ISO/IEC 15938-5-04, "Information technology — Multimedia content description interface — Part 5: Multimedia description schemes"* (Adopted Amendment 3:2008 to ISO/IEC 15938-5:2003)..... $15

**CAN/CSA-ISO/IEC 16022:07 TC 1**
*Technical Corrigendum 1:2009 to CAN/CSA-ISO/IEC 16022:07, "Information technology — Automatic identification and data capture techniques — Data Matrix bar code symbology specification"* (Adopted Technical Corrigendum 1:2008 to ISO/IEC 16022:2006)

**CAN/CSA-ISO/IEC 18033-3:06 TC 3**
*Technical Corrigendum 3:2009 to CAN/CSA-ISO/IEC 18033-3:06, "Information technology — Security techniques — Encryption algorithms — Part 3: Block ciphers"* (Adopted Technical Corrigendum 3:2008 to ISO/IEC 18033-3:2005)

**CAN/CSA-ISO/IEC TR 18047-3:05 TC 2**
*Technical Corrigendum 2:2009 to CAN/CSA-ISO/IEC TR 18047-3:05, "Information technology — Radio frequency identification device conformance test methods — Part 3: Test methods for air interface communications at 13,56 MHz"* (Adopted Technical Corrigendum 2:2008 to ISO/IEC TR 18047-3:2004)

**CAN/CSA-ISO/IEC 19757-4:06 TC 1**
*Technical Corrigendum 1:2009 to CAN/CSA-ISO/IEC 19757-4:06, "Information technology — Document Schema Definition Languages (DSDL) — Part 4: Namespace-based Validation Dispatching Language (NVDL)"* (Adopted Technical Corrigendum 1:2008 to ISO/IEC 19757-4:2006)

**CAN/CSA-ISO/IEC 21000-5C-07**
*Amendment 3:2009, "OAC (Open Access Content) profile," to CAN/CSA-ISO/IEC 21000-5-07, "Information technology — Multimedia framework (MPEG-21) — Part 5: Rights Expression Language"* (Adopted Amendment 3:2008 to ISO/IEC 21000-5:2004)..... $105

**CAN/CSA-ISO/IEC 21000-9A-07**
*Amendment 1:2009, "MIME type registration," to CAN/CSA-ISO/IEC 21000-9-07, "Information technology — Multimedia framework (MPEG-21) — Part 9: File Format"* (Adopted Amendment 1:2008 to ISO/IEC 21000-9:2005) ..... $15

**CAN/CSA-ISO/IEC 21000-15A-07**
*Amendment 1:2009, "Security in Event Reporting," to CAN/CSA-ISO/IEC 21000-15-07, "Information technology — Multimedia framework (MPEG-21) — Part 15: Event Reporting"* (Adopted Amendment 1:2008 to ISO/IEC 21000-15:2006) ..... $15

## Amendments (cont'd)

**CAN/CSA-ISO/IEC 21000-18A-08**
*Amendment 1:2009, "Simple fragmentation rule," to CAN/CSA-ISO/IEC 21000-18-08, "Information technology — Multimedia framework (MPEG-21) — Part 18: Digital Item Streaming"* (Adopted Amendment 1:2008 to ISO/IEC 21000-18:2007)..... $105

**CAN/CSA-ISO/IEC 23001-1B-08**
*Amendment 2:2009, "Conservation of prefixes and extensions on encoding of wild cards," to CAN/CSA-ISO/IEC 23001-1-08, "Information technology — MPEG systems technologies — Part 1: Binary MPEG format for XML"* (Adopted Amendment 2:2008 to ISO/IEC 23001-1:2006)..... $105

**CAN/CSA-ISO/IEC 23002-1A-08**
*Amendment 1:2009, "Software for integer IDCT accuracy testing," to CAN/CSA-ISO/IEC 23002-1-08, "Information technology — MPEG video technologies — Part 1: Accuracy requirements for implementation of integer-output 8x8 inverse discrete cosine transform"* (Adopted Amendment 1:2008 to ISO/IEC 23002-1:2006) ..... $15

**CAN/CSA-ISO/IEC 23003-1A-08**
*Amendment 1:2009, "Conformance testing," to CAN/CSA-ISO/IEC 23003-1-08, "Information technology — MPEG audio technologies — Part 1: MPEG Surround"* (Adopted Amendment 1:2008 to ISO/IEC 23003-1:2007) ..... $75

**CAN/CSA-ISO/IEC 23003-1B-08**
*Amendment 2:2009, "Reference software," to CAN/CSA-ISO/IEC 23003-1-08, "Information technology — MPEG audio technologies — Part 1: MPEG Surround"* (Adopted Amendment 2:2008 to ISO/IEC 23003-1:2007) ..... $15

# *Completed Projects / Projets terminés*

## New Standards — New Editions — Special Publications

**A257 Series-09, 5th edition**
*Standards for Concrete Pipe and Manhole Sections*
Paper ..... $140
PDF ..... $125

This series consists of the following standards:

- **A257.0-09**, *Methods for Determining Physical Properties of Circular Precast Concrete Pipe, Manhole Sections, Catch Basins, and Fittings*.
- **A257.1-09**, *Non-Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings*.
- **A257.2-09**, *Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings*.
- **A257.3-09**, *Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections, and Fittings Using Rubber Gaskets*.
- **A257.4-09**, *Precast Reinforced Circular Concrete Manhole Sections, Catch Basins, and Fittings*.

**B137 Series-09, 4th edition**
*Thermoplastic Pressure Piping Compendium*
Paper ..... $440
PDF ..... $400

This series consists of the following standards:

- **B137.0-09**, *Definitions, General Requirements, and Methods of Testing for Thermoplastic Pressure Piping*. This standard specifies requirements for thermoplastic pressure piping. It includes reference publications, definitions, abbreviations, general requirements for materials and manufactured pipe and fittings, relevant test methods, and marking requirements.
- **B137.1-09**, *Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services*. This standard covers polyethylene (PE) pipe, tubing, and fittings for use in potable cold-water supply services or other applications such as water-based ground source geothermal systems.

## New Standards — New Editions — Special Publications (cont'd)

**B137 Series-09 (cont'd)**

- **B137.2-09**, *Polyvinylchloride (PVC) Injection-Moulded Gasketed Fittings for Pressure Applications*. This standard covers rigid polyvinylchloride (PVC) injection-moulded fittings that have gasketed joints and are intended for use in pressure applications such as water mains, water service piping, process piping, and fire lines. Fittings covered by this standard are suitable for use with PVC pipes having outside diameter dimensions of cast iron pipe. Only one pressure rating, 1620 kPa (Class 150), covered in this standard is suitable for use with compatible outside diameter PVC pipes having a dimension ratio (DR) of 18 or more.
- **B137.3-09**, *Rigid Polyvinylchloride (PVC) Pipe and Fittings for Pressure Applications*. This standard covers rigid polyvinylchloride (PVC) pipe and fittings intended for use in pressure applications such as water mains, water service piping, and process piping. The fittings covered by this standard include moulded, solvent-cemented, gasketed, or threaded fittings, and fittings that have been fabricated for use with any joining method.
- **B137.3.1-09**, *Molecularly Oriented Polyvinylchloride (PVCO) Pipe for Pressure Applications.* This standard covers molecularly oriented polyvinylchloride (PVCO) pipe intended for use in pressure applications such as water mains, sewer force mains, and process piping. PVCO complying with this standard is not suitable for solvent cementing and is intended to be joined by gasketed joints.
- **B137.4-09**, *Polyethylene (PE) Piping Systems for Gas Services.* This standard covers polyethylene (PE) pipe, tubing, and fittings for use in gas mains and services, including gathering, transmission, and distribution of fuel gases containing not more than 1% aromatic hydrocarbons.
- **B137.4.1-09**, *Electrofusion-Type Polyethylene (PE) Fittings for Gas Services.* This standard covers socket- and saddle-type polyethylene (PE) electrofusion fittings that are used to join PE pipe where the heat source is an integral part of the fitting. PE electrofusion fittings covered by this standard are intended for use with PE pipe that complies with CSA B137.4.
- **B137.5-09**, *Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications.* This standard specifies requirements for crosslinked polyethylene (PEX) tubing systems, comprised of tubing and fittings. Tubing covered by this standard is made in Standard Dimensional Ratio 9 (SDR 9). Systems are pressure rated at three temperatures: 1105 kPa at 23 °C, 690 kPa at 82 °C, and 550 kPa at 93 °C, with a maximum working pressure of 690 kPa at 82 °C. Systems are intended for use in potable water distribution systems or other applications, including municipal water service lines, reclaimed water distribution, radiant panel heating systems, hydronic baseboard heating systems, snow and ice melting heating systems, building services piping, compressed air distribution, and ground source geothermal systems, provided that the PEX tubing systems covered herein comply with the applicable code requirements. Residential and commercial systems are included.

## New Standards — New Editions — Special Publications (cont'd)

**B137 Series-09 (cont'd)**

- **B137.6-09**, *Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing, and Fittings for Hot- and Cold-Water Distribution Systems.* This standard covers chlorinated polyvinylchloride (CPVC) pipe, tubing, and fittings having standard dimension ratio 11 (SDR 11), and Schedules 40 and 80 pipe in pipe sizes whose dimension ratio does not exceed 11, for use in hot- and cold-water distribution systems at a maximum working pressure of 690 kPa and a maximum working temperature of 82 °C.

- **B137.8-09**, *Polybutylene (PB) Piping Systems for Pressure Applications.* This standard covers polybutylene (PB) pipe, tubing, and fittings. Nominal pipe sizes (NPS) covered are NPS-1/4 to NPS-2. Fittings covered include insert-type fittings, socket fusion fittings, plastic-to-metal transition fittings, and compression-type fittings. Pipes, tubing, and fittings covered by this standard are intended for use in pressure applications such as hot and cold potable and nonpotable water distribution systems operating at a maximum pressure of 690 kPa and at a maximum temperature of 82 °C.

- **B137.9-09**, *Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-Pipe Systems.* This standard covers polyethylene/aluminum/polyethylene (PE-AL-PE) macrocomposite pipe consisting of a welded aluminum tube laminated by a melt adhesive to layers of polyethylene (PE) inside and outside the aluminum tube. The pipes covered in this standard are pressure rated for 1380 kPa at 23 °C, 1035 kPa at 60 °C, or 690 kPa at 82 °C. Systems are intended for use in potable water distribution systems or other applications, including municipal water service lines, reclaimed water distribution, radiant panel heating systems, hydronic baseboard heating systems, snow and ice melting systems, building services piping, compressed air distribution, ground source geothermal systems, underground irrigation, and gas distribution, provided that the PE-AL-PE systems comply with the applicable code requirements. Residential and commercial systems are included.

- **B137.10-09**, *Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-Pipe Systems.* This standard covers crosslinked polyethylene/aluminum/crosslinked polyethylene (PEX-AL-PEX) macrocomposite pipe consisting of a welded aluminum (AL) tube laminated by a melt adhesive to layers of crosslinked polyethylene (PEX) inside and outside the aluminum tube. This standard also covers fittings (connectors) for use with PEX-AL-PEX pipe. The pipes covered in this standard are pressure rated for 1380 kPa at 23 °C or 860 kPa at 82 °C, or both. Systems are intended for use in potable water distribution systems or other applications, including municipal water service lines, reclaimed water distribution, radiant panel heating systems, hydronic baseboard heating systems, snow and ice melting systems, building services piping, compressed air distribution, ground source geothermal systems, underground irrigation, and gas distribution, provided that the PEX-AL-PEX systems comply with the applicable code requirements.

## New Standards — New Editions — Special Publications (cont'd)

**B137 Series-09 (cont'd)**

- **B137.11-09**, *Polypropylene (PP-R) Pipe and Fittings for Pressure Applications.* This standard covers pipe and fittings made of random copolymerized polypropylene (PP-R) intended for use in pressure applications such as hot and cold potable water distribution systems, process piping, reclaimed/recycled water systems, water service, and geothermal systems. Piping system components covered by this Standard are made in four standard dimension ratios (SDR 5, 6, 7.3, and 11), in sizes NPS-3/8 to NPS-10, and are joined using socket-type heat-fusion joints, saddle welding joints, electrofusion joints, and butt welding. SDR 11 piping systems covered by this standard are intended for use only in cold water systems or heating systems operating at 205 kPa or less.
- **B137.12-09**, *Polyamide-11 (PA-11) Piping Systems for Gas Services.* This standard covers polyamide-11 (PA-11) pipe, tubing, and fittings for use in gas mains and services, including the gathering, transmission, and distribution of gases that can contain aromatic hydrocarbons. This standard covers all types of fittings and connections used in PA-11 piping systems for gas services, including plastic-to-metal transition fittings, plastic component fittings (e.g., elbows, tees, end caps, and valves), and clamps and couplings.

## Amendments

**CAN/CSA-S406-92 (R2008)**
*Construction of Preserved Wood Foundations*

Revision of Clause 8.3.

**Z240 MH Series-09**
*Manufactured Homes*

The following revisions have been made to the series:

- **Z240.0.1**: Revision of Clauses 6(i) and 7(d)
- **Z240.2.1**: Revision of Table 9.

## Modifications publiées en français

**CAN/CSA-S406-92 (C2008)**
*Construction des fondations en bois traité*

Des modifications ont été apportées à l'article 8.3.

## Reaffirmed Standards

**CAN/CSA-A123.16-04 (R2009)**
*Asphalt-Coated Glass-Base Sheets*

**A123.17-05 (R2009)**
*Asphalt Glass Felt Used in Roofing and Waterproofing*

**CAN/CSA-B45.11-04 (R2009)**
*Glass Lavatories*

**W47.2-M1987 (R2009)**
*Certification of Companies for Fusion Welding of Aluminum*

# Certification and Testing (CSA International)

## Certification Notices

*Please note:* ▶ Notices marked with an arrowhead are new in this issue.

| Effective Date | Subject | Title |
|---|---|---|
| December 31, 2009 | Publication of ASME A112.19.3-2008/ CSA B45.4-08, *Stainless Steel Plumbing Fixtures*. | Plumbing Products No. 198 |
| December 31, 2009 | Publication of ASME A112.19.2-2008/ CSA B45.1-08, *Ceramic Plumbing Fixtures*. | Plumbing Products No. 200 |
| March 1, 2010 | Publication of ASME A112.19.1-2008/ CSA B45.2-08, *Enamelled Cast Iron and Enamelled Steel Plumbing Fixtures*. | Plumbing Products No. 199 |
| June 1, 2010 | Publication of CSA B137 Series-05, *Thermoplastic Pressure Pipe Compendium.* | Plumbing Products No. 193 |

# Completed Projects / Projets terminés

## New Standards — New Editions — Special Publications

**C22.2 No. 239-09, 3rd edition**
*Control and Instrumentation Cables*
PDF only ..... $200

This standard applies to multiple-conductor control and instrumentation cables (including thermocouple cables and thermocouple extension cables) having a voltage rating not exceeding 1000 V and intended for installation in accordance with the *Canadian Electrical Code, Part I*.

This standard applies to cables rated 1000 V, 600 V, 300 V, and 150 V, and to temperature ratings up to 105 °C. This standard also includes specific requirements for high-temperature control and instrumentation cables rated 125 to 250 °C.

**C22.2 No. 253-09, 1st edition**
*Medium-Voltage AC Contactors, Controllers, and Control Centres* (tri-national standard with NMX-J-564/106-ANCE, first edition, and UL 347, fifth edition)
PDF only ..... $655

This standard applies to ac contactors with rated voltages of 1501 to 7200 V, and metal-enclosed contactor-based controllers, control centres, and other control assemblies and associated equipment with rated voltages of 751 to 7200 V, designed for operation at frequencies of 50 or 60 Hz on three-phase systems. These requirements cover equipment intended for use in ordinary (non-hazardous) locations and installed in accordance with the applicable local installation codes and standards. These requirements, as modified by the applicable national standards for fire pump controllers, also cover fire pump controllers.

This standard also includes requirements for controllers intended for service entrance applications.

**CAN/CSA-C22.2 No. 60745-2-16-09, 1st edition**
*Hand-held motor-operated electric tools — Safety — Part 2-16: Particular requirements for tackers* (bi-national standard with UL 60745-2-16, first edition. Adopted IEC 60745-2-16:2008, second edition, without modification)
PDF only ..... $655

This standard applies to tackers intended for general use. This standard does not apply to tackers intended for industrial production applications.

## New Standards — New Editions — Special Publications (cont'd)

**C310-09, 1st edition**
*Distribution Class Polymeric Cutouts*
PDF only ..... $150

This standard applies to open-type (fused and solid-blade) cutouts with a polymeric insulator structure component. These cutouts are intended for operation on alternating current distribution systems.

In some cases, specific types of construction are envisaged. This does not preclude the use of other types of construction, provided that the engineering representatives involved can demonstrate the safety and suitability of these alternatives.

## Amendments

**C22.2 No. 18.1-04**
*Metallic Outlet Boxes* (tri-national standard with NMX-J-023/1-ANCE, first edition, and UL 514A, tenth edition)

Revision of the title page, the copyright page, the contents, the preface, Clauses 2.2, 5.11.2, 5.13.1, 6.1, 6.1.1, 8.1.6, 9.6.2.2, 9.7.2.1, 12.14.1.1, 12.4.1.2, and 12.4.2.1, Tables 6 and 10, and Figure 15. Addition of Clauses B.1.5., B.1.6, and B.6. Deletion of Clauses 5.11.3, 9.6.2.3–9.6.2.7, 9.7.2.2–9.7.2.6, 12.14.1.3, and 12.14.2.2.

**CAN/CSA-C22.2 No. 18.3-04 (R2009)**
*Conduit, Tubing, and Cable Fittings* (tri-national standard with NMX-J-017-ANCE, first edition, and UL 514B, fifth edition)

Revision of the title page, the copyright page, the contents, the preface, Clauses 1.2, 2.2, 5.1.3.1, 5.2.1.2, 5.2.1.4, 6.1.1, 6.2.3, 6.2.4, 7.12.3, 8.12.1.2, 8.14.1.1, 8.16.1.2, 8.20.6.1, 8.21.1.1, 8.23.3.1, 8.24, 8.24.1.1–8.24.1.4, 8.24.2, 8.24.2.1, 8.27.2, 8.27.2.1, and A.1, and Table 41. Addition of Clauses 5.1.3.1A, 7.12.6, 7.20, 8.5A, and 8.27.2.3A. Deletion of the CSA foreword and Clause 8.24.1.5.

**C22.2 No. 127-09**
*Equipment and Lead Wires*

Revision of Clauses 5.1.2.5 and 5.1.6.

## Reaffirmed Standards

**C22.2 No. 229-M1988 (R2009)**
*Switching and Metering Centres*

**CAN/CSA-C22.2 No. 236-05 (R2009)**
*Heating and Cooling Equipment* (bi-national standard with UL 1995, third edition)

### Reaffirmed Standards (cont'd)

**CAN3-C108.3.1-M84 (R2009)**
*Limits and Measurement Methods of Electromagnetic Noise from AC Power Systems, 0.15-30 MHz*

**CAN/CSA-CEI/IEC 61000-4-2-01 (R2009)**
*Electromagnetic compatibility (EMC) — Part 4-2: Testing and measurement techniques — Electrostatic discharge immunity test* (Adopted CEI/IEC 61000-4-2:1995, edition 1.1, including Amendment 1:1998, without modification)

**CAN/CSA-CEI/IEC 61000-4-12-01 (R2009)**
*Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Section 12: Oscillatory waves immunity test Basic EMC Publication* (Adopted CEI/IEC 1000-4-12:1995, first edition, including Amendment 1:2000, without modification)

## *Certification and Testing (CSA International)*

### Certification Notices

**Please note:** ▶ Notices marked with an arrowhead are new in this issue.

| Effective Date | Subject | Title |
|---|---|---|
| December 31, 2009 | Publication of Update No. 4 to CSA standard C22.2 No. 42-99, *General Use Receptacles, Attachment Plugs and Similar Wiring Devices*. Ground Fault Circuit Interrupter (GFCI) devices, combined with receptacles having tamper-resistant features, CSA-certified to the CSA standard C22.2 No. 144.1, shall comply with the new test and marking requirements of this update. | Ground Fault Circuit Interrupters No. 7 |
| December 31, 2009 | Publication of Update No. 4 to CSA standard C22.2 No. 42-99, *General Use Receptacles, Attachment Plugs and Similar Wiring Devices*. | Wiring Devices No. 56 |
| December 31, 2009 | Publication of Update No. 2 to CSA standard C22.2 No. 130-03, *Requirements for Electrical Resistance Heating Cables and Heating Device Sets*. (Supersedes Wiring Devices No. 37.) | Wiring Devices No. 37A |
| January 1, 2010 | Publication of the second edition of CSA standard CAN/CSA-C681-06, *Performance of Self-Ballasted Compact Fluorescent lamps and Ballasted Adapters*. | Verification Service Announcement No. 35 |

## Certification Notices (cont'd)

| Effective Date | Subject | Title |
|---|---|---|
| January 5, 2010 | Publication of CSA standard C22.2 No. 45.2-08, *Electrical Rigid Metal Conduit — Aluminum, Red Brass, and Stainless Steel* (bi-national standard with UL 6A, 2nd edition). | Conduit No. 23 |
| March 1, 2010 | Publication of CSA standard C22.2 No. 35-09, *Extra-Low Voltage Control Circuit Cable, Low-Energy Control Cable, and Extra-Low-Voltage Control Cable.* | Wire and Cable No. 149 |
| March 10, 2010 | Publication of Update No. 2 to CSA standard C22.2 No. 243-01, *Vacuum Cleaners, Blower Cleaners and Household Floor Finishing Machines* (bi-national standard with UL 1017). | Vacuum Cleaners and Blower Cleaners No. 9 |
| March 31, 2010 | Publication of Amendments to UL 1059, *Terminal Blocks*. (Supersedes Wiring Devices No. 40.) | Wiring Devices No. 40A |
| April 1, 2010 | Publication of CSA standard C22.2 No. 250.7-07, *Extra-low-voltage Landscape Lighting Systems*. (Supersedes Lighting Products No. 34.) | Lighting Products No. 52 |
| May 3, 2010 | Publication of CSA standard C22.2 No. 96-09, *Portable Power Cables.* | Wire and Cable No. 147 |
| May 31, 2010 | Transfer of existing certifications of shielded and concentric neutral power cables to CSA standard C68.5-05, *Primary Shielded and Concentric Neutral Cable for Distribution Utilities.* | Wire and Cable No. 142 |
| May 31, 2010 | Publication of CSA standard C68.10-08, *Shielded Power Cable for Commercial and Industrial Applications, 5-46 KV*. | Wire and Cable No. 139 |
| May 31, 2010 | Extension of effective date for CSA standard CAN/CSA-C22.2 No. 42.1-00, *Cover Plates for Flush-Mounted Wiring Devices* (bi-national standard with UL 514D). | Wiring Devices No. 39A |
| June 1, 2010 | Publication of CSA standards CAN/CSA-C22.2 No. 60745-1-04 and CAN/CSA-C22.2 No. 60745-2-04 (bi-national standards with UL 60745-1 and associated Part 2 series standards). | Electrical Tools No. 15 |
| July 1, 2010 | Publication of Update No. 2 to CSA standard C22.2 No. 62.1-03, *Nonmetallic Surface Raceways and Fittings* (bi-national standard with UL5A). | Raceways and Fittings No. 7 |

## Certification Notices (conf'd)

| Effective Date | Subject | Title |
|---|---|---|
| July 30, 2010 | Publication of CSA standard C22.2 No. 2515-09, *Aboveground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings* (bi-national standard, with UL 2515). (Supersedes Conduit No. 7.) | Conduit No. 24 |
| July 30, 2010 | Publication of CSA standard C22.2 No. 2520-09, *Belowground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings* (bi-national standard, with UL 25). (Supersedes Conduit No. 7.) | Conduit No. 25 |
| July 31, 2010 | Publication CSA standard CAN/CSA-C22.2 No. 71.2-2008, *Electric Bench Tools.* | Electric Tools No. 22 |
| September 17, 2010 (existing certifications) | Publication of CSA standard C22.2 No. 250.0-08, *Luminaires* (bi-national standard with UL 1598, 3rd edition). (Supersedes Lighting Products No. 35, 35A, and 47.) | Lighting Products No. 53 |
| December 1, 2010 | Publication of CSA standard CAN/CSA-C22.2 No. 60950-1-07 (bi-national standard with UL 60950-1). | Information Technology and Electrical Business Equipment No. 16 |
| December 15, 2010 | Publication of CSA standard C22.2 No. 43-08, *Lampholders* (bi-national standard with UL 496). | Wiring Devices No. 58 |
| February 28, 2011 | Publication of CSA standard C22.2 No. 52-09, *Underground Secondary and Service-Entrance Cables*. | Wire and Cable No. 143 |
| May 31, 2011 | Transfer of existing certifications of shielded and concentric neutral power cables to CSA standard C68.5-07, *Primary Shielded and Concentric Neutral Cable for Distribution Utilities*. (Supersedes Wire and Cable No. 142 and supplements Wire and Cable No. 136.) | Wire and Cable No. 142A |
| May 31, 2011 | Extension of effective date for certification of shielded power cables to CSA standard C68.10, *Shielded Power Cable for Commercial and Industrial Applications, 5-46 kV*. | Wire and Cable No. 150 |

## Certification Notices (conf'd)

| Effective Date | Subject | Title |
|---|---|---|
| January 1, 2012 | Publication of CSA standard CAN/CSA-E61131-2:06, *Programmable controllers — Part 2: Equipment requirements and tests* (Adopted IEC 61131-2:2003, second edition, with Canadian deviations). | Programmable Controllers No. 1 |
| May 1, 2012 | Publication of bi-national standard CSA C22.2 No. 66-06 Series and UL 5085 Series, *Low Voltage Transformers*. | Transformers No. 6 |
| July 31, 2012 | Publication of CSA standard C22.2 No. 236-05, *Heating and Cooling Equipment* (bi-national standard with UL 1995). | Gas Products No. 201 |
| October 31, 2012 | Publication of CSA standard CAN/CSA-C22.2 No. 60745-1-07, *Hand-Held Motor-Operated Electric Tools — Safety — Part 1: General Requirements* (bi-national standard, with UL 60745-1), and associated Part 2 standards. (Supersedes Electrical Tools Nos. 6, 15, 16, 16A, and 19.) | Electrical Tools No. 23 |
| August 21, 2016 | Publication of CSA standard CAN/CSA-C22.2 No. 60335-2-24-06, *Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice Cream Appliances and Ice Makers* (tri-national standard with UL 60335-2-24 and NMX-J-521/2-24-ANCE-2006. Adopted IEC 60335-2-24:2002, sixth edition, with national deviations). | Household Refrigerators and Freezers No. 3 |

# Completed Projects / Projets terminés

## New Standards — New Editions — Special Publications

**C747-09, 4th edition**
*Energy Efficiency Test Methods for Small Motors*
PDF only ..... $400

This standard specifies the test methods to be used in measuring the energy efficiency of small direct-current (dc) and single- and three-phase alternating-current (ac) rotating motors. This standard includes the following motor types:

- capacitor, permanent-split
- capacitor, capacitor-start or capacitor-run
- split phase
- split phase start, capacitor-run
- shaded pole
- reluctance
- polyphase induction
- dc
- permanent magnet
- brushless dc
- inverter driven.

**C862-09, 4th edition**
*Performance of Incandescent Reflector Lamps*
PDF only ..... $90

This standard describes testing procedures and states the performance requirements for general service incandescent and tungsten halogen reflector lamps.

This standard includes performance requirements for the following:

- wattage
- lamp efficacy
- rated luminous flux
- centre beam intensity
- rated life.

This standard applies to incandescent and tungsten halogen reflector lamps designed for general lighting use that have the following:

- a rated wattage from 40 W up to and including 205 W
- an operating capability between 110 and 130 V
- an E26/24 single contact, or E26/50×39 skirted, medium screw base
- a bulb diameter > 57 mm.

## New Standards — New Editions — Special Publications (cont'd)

**N286.7.1-09, 1st edition**
*Guideline for the application of N286.7-99, "Quality assurance of analytical, scientific, and design computer programs for nuclear power plants"*
PDF only ..... $300

This standard specifies the construction, fabrication, and installation requirements that apply to concrete containment structures of a containment system designated as class containment components, parts, and appurtenances for CANDU nuclear power plants.

This standard provides personnel qualification requirements for work performed as it pertains to the construction, fabrication, and installation of concrete containment structures for CANDU nuclear power plants, in accordance with this standard.

This standard may be applied, as appropriate, to nuclear facilities under the jurisdiction of the *Nuclear Safety and Control Act*.

**N287.4-09, 4th edition**
*Construction, Fabrication, and Installation Requirements for Concrete Containment Structures for CANDU Nuclear Power Plants*
Paper ..... $220
PDF ..... $200

This standard specifies the construction, fabrication, and installation requirements that apply to concrete containment structures of a containment system designated as class containment components, parts, and appurtenances for CANDU nuclear power plants.

This standard provides personnel qualification requirements for work performed as it pertains to the construction, fabrication, and installation of concrete containment structures for CANDU nuclear power plants, in accordance with this standard.

This standard may be applied, as appropriate, to nuclear facilities under the jurisdiction of the *Nuclear Safety and Control Act*.

## Nouvelles normes — Nouvelles éditions — Publications spéciales publiées en français

**C815-09, 4e édition**
*Rendement énergétique des refroidisseurs d'eau potable*
PDF seulement .....55 $

Cette norme prescrit les exigences relatives aux performances énergétiques des refroidisseurs d'eau autonomes dont la capacité nominale à l'heure ne dépasse pas 21 mL/s (20 gal US/h). Elle énonce notamment :
a) des procédures pour mesurer la capacité et la consommation d'énergie, y compris les pertes en attente ; et
b) les valeurs maximales de consommation d'énergie.

Cette norme vise les refroidisseurs d'eau de type mécanique, thermoélectrique ou autre à commande électrique, conçus pour refroidir l'eau d'une fontaine située sur place ou à distance, appartenant à un des types suivants :
a) à pression ;
b) à consommation directe ;
c) éloignés ; et
d) à bouteille.

Cette norme vise en outre les appareils qui offrent aussi une commodité supplémentaire sous la forme d'un compartiment réfrigéré ou d'un dispositif qui chauffe l'eau potable, ou des deux.

Cette norme ne vise pas les refroidisseurs d'eau
a) destinés à des systèmes de circulation d'eau centraux ; ou
b) munis de groupes compresseur-condenseur éloignés (systèmes à deux blocs).

**N287.4-09, 4e édition**
*Exigences relatives à la construction, à la fabrication et à l'installation des enceintes de confinement en béton des centrales nucléaires CANDU*
Papier.....220 $
PDF.....200 $

Cette norme prescrit les exigences relatives à la construction, à la fabrication et à l'installation qui s'appliquent aux enceintes de confinement en béton d'un système de confinement désignées comme composants, pièces et accessoires de la «classe confinement» des centrales nucléaires CANDU.

Cette norme énonce les exigences relatives à l'agrément du personnel pour les travaux de construction, de fabrication et d'installation des enceintes de confinement en béton pour les centrales nucléaires CANDU, effectués conformément à cette norme.

Cette norme peut s'appliquer, s'il y a lieu, aux installations nucléaires visées par la *Loi sur la sûreté et la réglementation nucléaires*.

## Nouvelles normes — Nouvelles éditions — Publications spéciales (suite)

**Z246.1-09, 1re édition**
*Gestion de la sûreté des installations liées à l'industrie du pétrole et du gaz naturel*
Papier.....275 $
PDF.....250 $

Cette norme précise les critères d'établissement d'un programme de gestion de la sûreté des installations liées à l'industrie du pétrole et du gaz naturel en visant à s'assurer que les menaces à la sûreté et les risques connexes sont répertoriés et contrôlés. Elle précise des moyens d'atténuer ces risques, des moyens d'intervention et des procédures pour empêcher ou minimiser l'impact d'incidents liés à la sûreté qui pourraient affecter les personnes, l'environnement, les actifs et la stabilité économique.

## Reaffirmed Standards

**C748-94 (R2009)**
*Performance of Direct-Expansion (DX) Ground-Source Heat Pumps*

# *Completed Projects / Projets terminés*

## Reaffirmed Standards

**CAN/CSA-ISO 14021-00 (R2009)**
*Environmental labels and declarations — Self-declared environmental claims (Type II environmental labelling*) (Adopted IS0 14021:1999, first edition, without modification)

# Completed Projects / Projets terminés

## Amendments

**ANSI Z21.10.1a-2009/CSA 4.1a-2009**
*Addenda A to "Gas Water Heaters"*
PDF only ..... $80

This document provides revisions to ANSI Z21.10.1-2009/CSA 4.1-2009.

**ANSI Z21.19A-2009/CSA 1.4A-2009**
*Addenda A to "Refrigerators Using Gas Fuel"*
PDF only ..... $65

This document provides revisions to ANSI Z21.19-2002/CSA 1.4-2002.

**ANSI Z21.89-2007/CSA 1.18-2007**
*Erratum to "Outdoor Cooking Specialty Gas Appliances"*

This document provides revisions to ANSI Z21.89-2007/CSA 1.18-2007.

# Certification and Testing (CSA International)

## Certification Notices

*Please note:* ▶ Notices marked with an arrowhead are new in this issue.

| Effective Date | Subject | Title |
|---|---|---|
| February 1, 2010 | Compliance with Section 1.16.2, *Ignition Systems on Oven Burners,* in ANSI Z21.1-2005, *Household Cooking Gas Appliances.* | Gas Products No. 197 |
| August 1, 2010 | Publication of standard ANSI LC7-2009, *Pipe Joint Sealing Compounds and Materials.* | Gas Products No. 186 |
| August 1, 2010 | Publication of addenda ANSI Z21.50b-2009/ CSA 2.22b-2009, *Vented Gas Fireplaces*. The revisions in this addenda supersede any corresponding provisions of ANSI Z21.50-2007/CSA 2.22-2007 and ANSI Z21.50a-2008/CSA 2.22a-2008. | Gas Products No. 189 |
| August 1, 2010 | Publication of addenda ANSI Z83.11b-2009/ CSA 1.8b-2009, *Gas Food Service Equipment*. The revisions in this addenda supersede any corresponding provisions of ANSI Z83.11-2006/CSA 1.8-2006 and ANSI Z83.11a-2007/CSA 1.8a-2007. | Gas Products No. 190 |

## Certification Notices (cont'd)

| Effective Date | Subject | Title |
|---|---|---|
| August 1, 2010 | Publication of CSA standard P.4.1-09, *Testing Method for Measuring Annual Fireplace Efficiency.* | Gas Products No. 193 |
| August 1, 2010 | Publication of standard ANSI Z21.88/ CSA 2.33-2009, *Vented Gas Fireplace Heaters*. | Gas Products No. 194 |
| December 1, 2010 | Publication of addenda ANSI Z83.8a-2009/ CSA 2.6a-2009, *Gas Unit Heaters and Gas-Fired Duct Furnaces.* The revisions in this standard supersede any corresponding provisions of ANSI Z83.8-2006/CSA 2.6-2006. | Gas Products No. 199 |
| July 31, 2012 | Publication of CSA standard C22.2 No. 236-05, *Heating and Cooling Equipment* (bi-national standard with UL 1995). | Gas Products No. 201 |

# Completed Projects / Projets terminés

## New Standards — New Editions — Special Publications

**CAN/CSA-C22.2 No. 60601-1-3-09, 2nd edition (bilingual)**
*Medical electrical equipment — Part 1-3: General requirements for basic safety and essential performance — Collateral standard: Radiation protection in diagnostic X-ray equipment*
(Adopted IEC 60601-1:2008, second edition, without modification)
PDF only ..... $175

This standard applies to x-ray equipment and to subassemblies of such equipment, where radiological images of a human patient are used for diagnosis, planning, or guidance of medical procedures.

**CAN/CSA-C22.2 No. 60601-1-10-09, 1st edition (bilingual)**
*Medical electrical equipment — Part 1-10: General requirements for basic safety and essential performance — Collateral Standard: Requirements for the development of physiologic closed-loop controllers* (Adopted IEC 60601-1-10:2007, first edition, without modification)
PDF only ..... $155

This standard specifies requirements for the development (analysis, design, verification, and validation) of a physiologic closed-loop controller (PCLC) as part of a physiologic closed-loop control system (PCLCS) in medical electrical equipment and medical electrical systems to control a physiologic variable.

This collateral standard applies to various types of PCLC; e.g., linear and non-linear, adaptive, fuzzy, neural networks.

This standard does not specify additional mechanical requirements, or additional electrical requirements.

This standard applies to a closed-loop controller that sets the controller output variable in order to adjust (i.e., change or maintain) the measured physiologic variable by relating it to the reference variable.

**CAN/CSA-C22.2 No. 60601-2-2-09, 4th edition (bilingual)**
*Medical electrical equipment — Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories* (Adopted IEC 60601-2-2:2009, fifth edition, without modification)
PDF only ..... $245

This standard applies to the basic safety and essential performance of high frequency (HF) surgical equipment.

HF surgical equipment having a rated output power not exceeding 50 W (for example for micro-coagulation, or for use in dentistry or ophthalmology) is exempt from certain of the requirements of this particular standard. These exemptions are indicated in the relevant requirements.

## New Standards — New Editions — Special Publications (cont'd)

**CAN/CSA-C22.2 No. 60601-2-16-09, 3rd edition**
*Medical electrical equipment — Part 2-16: Particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment* (Adopted IEC 60601-2-16:2008, third edition, without modification)
PDF only ..... $200

This standard applies to the basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment, hereafter referred to as haemodialysis equipment.

This standard does not take into consideration the dialysing fluid control system of haemodialysis equipment using regeneration of dialysing fluid and central delivery systems. However, it does consider the specific safety requirements of such haemodialysis equipment concerning electrical safety and patient safety.

This standard specifies the minimum safety requirements for haemodialysis equipment. These devices are intended for use either by medical staff or by the patient or other trained personnel under the supervision of medical expertise.

This standard includes all medical electrical equipment that is intended to deliver a haemodialysis, haemodiafiltration and haemofiltration treatment to a patient suffering from kidney failure.

**CAN/CSA-C22.2 No. 60601-2-19-09, 2nd edition (bilingual)**
*Medical electrical equipment — Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators* (Adopted IEC 60601-2-19:2009, second edition, without modification)
PDF only ..... $155

This standard applies to the basic safety and essential performance of infant incubators.

**CAN/CSA-C22.2 No. 60601-2-31-09, 2nd edition (bilingual)**
*Medical electrical equipment — Part 2-31: Particular requirements for the basic safety and essential performance of external cardiac pacemakers with internal power source* (Adopted IEC 60601-2-31:2008, second edition, without modification)
PDF only ..... $155

This standard applies to the basic safety and essential performance of external pacemakers powered by an internal electrical power source.

## New Standards — New Editions — Special Publications (cont'd)

**CAN/CSA-C22.2 No. 60601-2-39-09, 2nd edition (bilingual)**
*Medical electrical equipment — Part 2-39: Particular requirements for basic safety and essential performance of peritoneal dialysis equipment* (Adopted IEC 60601-2-39:2007, second edition, without modification)
PDF only ..... $85

This standard applies to the basic safety and essential performance of peritoneal dialysis (PD) medical electrical equipment. It applies to PD equipment intended for use either by medical staff or under the supervision of medical experts, including PD equipment operated by the patient, regardless of whether the PD equipment is used in a hospital or domestic environment.

**G4-09, 7th edition**
*Steel Wire Rope for General Purpose and for Mine Hoisting and Mine Haulage*
Paper ..... $95
PDF ..... $85

This standard covers mine hoisting, mine haulage, and ski-lift ropes, and ropes for general applications. It includes requirements for raw materials and construction features for the following:

- round strand and flattened strand rope
- locked coil rope
- plastic impregnated and jacketed rope
- compacted strand rope in bright and galvanized finish.

The standard also includes requirements for in-service destructive testing of steel wire ropes for mine hoisting applications.

This standard is not intended for use in the manufacture and purchase of the following:

- aircraft cable
- elevator rope
- tiller rope
- swaged rope
- marlin-covered rope
- marine or shipping ropes
- bridge rope, and strand
- galvanized sash cord
- zinc-coated strand
- galvanized guard rail cable.

## New Standards — New Editions — Special Publications (cont'd)

**CAN/CSA-M3463-09, 1st edition**
*Tractors for agriculture and forestry — Roll-over protective structures (ROPS) — Dynamic test method and acceptance conditions* (Adopted ISO 3463:2006, fourth edition, without modification)
PDF only ..... $125

This standard is intended to be used in conjunction with CSA B352.0.

This standard specifies a dynamic test method and the acceptance conditions for roll-over protective structures (cab or frame) of wheeled tractors for agriculture and forestry.

It applies to tractors having at least two axles for wheels mounted with pneumatic tyres, or having tracks instead of wheels, with an unballasted tractor mass of not less than 600 kg, but generally less than 6 000 kg, and with a minimum track width of the rear wheels greater than 1 150 mm.

**CAN/CSA-M5700-09, 1st edition**
*Tractors for agriculture and forestry — Roll-over protective structures (ROPS) — Static test method and acceptance conditions* (Adopted ISO 5700:2006, fourth edition, without modification)
PDF only ..... $120

This standard is intended to be used in conjunction with CSA B352.0.

This standard specifies a static test method and the acceptance conditions for roll-over protective structures (cab or frame) of wheeled tractors for agriculture and forestry.

It applies to tractors having at least two axles for wheels mounted with pneumatic tyres, or having tracks instead of wheels, with an unballasted tractor mass of not less than 800 kg and a minimum track width of the rear wheels greater than 1 150 mm.

**CAN/CSA-M12003-1-09, 1st edition**
*Agricultural and forestry tractors — Roll-over protective structures on narrow-track wheeled tractors — Part 1: Front-mounted ROPS* (Adopted ISO 12003-1:2008, second edition, without modification)
PDF only ..... $140

This standard is intended to be used in conjunction with CSA B352.0.

This standard specifies procedures for both the static and dynamic testing of roll-over protective structures (ROPS) front-mounted on narrow-track wheeled agricultural and forestry tractors. It defines the clearance zone and acceptance conditions for rigid or tiltable, front, two-post ROPS, including any associated rear fixtures, and applies to tractors so equipped having the following characteristics:

## New Standards — New Editions — Special Publications (cont'd)

**CAN/CSA-M12003-1-09 (cont'd)**

- a ground clearance of not more than 600 mm beneath the lowest points of the front-axle and rear-axle housings (not considering lower points on the axle differential)
- a fixed or adjustable minimum track width of one of the two axles of less than 1 150 mm when fitted with the widest specified tyres. The axle mounted with the wider tyres is set at a track width of not more than 1 150 mm. It shall be possible to set the track width of the other axle in such a way that the outer edges of the narrower tyres do not extend beyond the outer edges of the tyres of the other axle. Where the two axles are fitted with rims and tyres of the same size, the fixed or adjustable track width of the two axles shall be less than 1 150 mm
- a mass greater than 600 kg but less than 3 000 kg, unladen, including the ROPS and tyres of the largest size recommended by the manufacturer.

**CAN/CSA-M12003-2-09, 1st edition**
*Agricultural and forestry tractors — Roll-over protective structures on narrow-track wheeled tractors — Part 2: Rear-mounted ROPS* (Adopted ISO 12003-2:2008, second edition, without modification)
PDF only ..... $135

This standard is intended to be used in conjunction with CSA B352.0.

This standard specifies procedures for both the static and dynamic testing of roll-over protective structures (ROPS) rear-mounted on narrow-track wheeled agricultural and forestry tractors. It defines the clearance zone and acceptance conditions for rigid or tiltable, rear, two-post roll bar, frame and cab ROPS, and applies to tractors so equipped having the following characteristics:

- A ground clearance of not more than 600 mm beneath the lowest points of the front- and rear-axle housings (not considering lower points on the axle differential)
- A fixed or adjustable minimum track width of one of the two axles of less than 1 150 mm when fitted with the widest specified tyres, and with the overall width of the other axle being less than that of the first axle
- A mass greater than 600 kg but less than 3 000 kg, unladen, including the ROPS and tyres of the largest size recommended by the manufacturer.

**Z151-09, 1st edition**
*Concrete Pumps and Placing Booms*
PDF only ..... $75

This standard applies to the design, manufacture, installation, operation, inspection, testing, and maintenance of concrete pumps, placing booms, and delivery systems.

## New Standards — New Editions — Special Publications (cont'd)

**Z195-09, 6th edition**
*Protective Footwear*
Paper ..... TBA
PDF ..... $60

This standard deals with new protective footwear and includes requirements for two grades of toe impact resistance, as well as special requirements for sole plate performance, metatarsal protection, electric-shock protection, sole flex durability, conductivity, and chainsaw protection.

This standard also provides requirements for static-dissipative footwear, with or without toe impact resistance.

This standard also provides requirements for slip-resisting footwear, with or without other protective features.

**CAN/CSA-Z15882-09, 2nd edition**
*Sterilization of health care products — Chemical indicators — Guidance for selection, use and interpretation of results* (Adopted ISO 15882:2008, second edition, without modification)
PDF only ..... $125

This standard provides guidance for the selection, use, and interpretation of results of chemical indicators used in process definition, validation, and routine monitoring and overall control of sterilization processes. This standard applies to indicators that show exposure to sterilization processes by means of physical and/or chemical change of substances, and that are used to monitor one or more of the variables required of a sterilization process. These chemical indicators are not dependent for their action on the presence or absence of a living organism.

**CAN/CSA-Z17665-2-09, 1st edition**
*Sterilization of health care products — Moist heat — Part 2: Guidance on the application of ISO 17665-1* (Adopted ISO/TS 17665-2:2009, first edition, without modification)
PDF only ..... $150

This standard provides general guidance on the development, validation and routine control of moist heat sterilization processes and is intended to explain the requirements set forth in ISO 17665-1. The guidance given in this standard promotes good practice related to moist heat sterilization processes and helps those developing and validating a moist heat sterilization process according to ISO 17665-1.

## Nouvelles normes — Nouvelles éditions — Publications spéciales publiées en français

**B339-08, 5e édition**
*Bouteilles à gaz cylindriques et sphériques et tubes pour le transport des marchandises dangereuses*
Papier ..... 125 $
PDF ..... 115 $

Cette norme énonce les exigences relatives à la fabrication, à l'inspection, à la mise à l'essai, au marquage, à la requalification, aux nouveaux traitements thermiques, à la réparation et à la réfection des bouteilles à gaz cylindriques et sphériques et des tubes (contenants) utilisés pour le transport des marchandises dangereuses. Elle énonce également les exigences relatives à la qualification des nouvelles conceptions et à l'inscription.

**B352.0-09, 2e édition**
*Structures de protection contre le retournement (ROPS), structures de protection contre les chutes d'objets (FOPS), structures de protection de l'opérateur (OPS) et structures de protection contre le basculement (TOPS) pour engins mobiles — Exigences canadiennes générales*
PDF seulement ..... 60 $

Cette norme est un document canadien apparenté à une série de 11 normes internationales, soit adoptées ou auxquelles il est fait référence, qui remplace la série de normes B352 (B352.0-95, B352.1-95 et B352.2-95) sur les structures ROPS. Cette série de normes adoptées et de référence (appelée la série ROPS/FOPS/OPS/TOPS) représente les idées les plus récentes, ainsi qu'un consensus international, sur la protection des opérateurs des tracteurs agricoles, des engins de terrassement mobiles, de matériel de construction, des engins mobiles pour utilisation dans les mines et des engins forestiers mobiles.

Leur emploi est dans l'intérêt à la fois de l'harmonisation des normes internationales et de l'élargissement du domaine d'application de la protection des opérateurs dans le but d'inclure les FOPS, les OPS et les TOPS. L'ancienne série B352 de normes sur les ROPS avait déjà été harmonisée avec les exigences internationales, mais ne constituait pas des adoptions directes des normes de l'ISO.

La série ROPS/FOPS/OPS/TOPS précise les exigences en matière de conception, de mise à l'essai, de performance et de sécurité des structures ROPS, FOPS, OPS et TOPS de certains types d'engins automoteurs agricoles, de construction, de terrassement, forestiers, industriels et miniers, notamment :

- Les exigences en matière de performance établies au moyen d'essais destructifs, s'appliquant aux structures ROPS et FOPS installées sur des tracteurs agricoles à chenilles ou sur roues, dont la masse est supérieure à 600 kg et dont la largeur de la voie arrière est supérieure à 1150 mm, sont énoncées dans les normes CAN/CSA-M3463 et CAN/CSA-M5700.

## Nouvelles normes — Nouvelles éditions — Publications spéciales (suite)

**B352.0-09 (suite)**

- Les exigences en matière de performance établies à l'aide d'essais destructifs, s'appliquant aux structures ROPS installées sur des tracteurs à roues à voie étroite ayant une masse de 600 à 3000 kg, dont la garde au sol est inférieure à 600 mm et dont la largeur de la voie est inférieure à 1150 mm, sont énoncées dans les normes CAN/CSA-M12003-1 et CAN/CSA-M12003-2.
- Les exigences en matière de performance établies à partir d'essais destructifs, s'appliquant aux structures ROPS et FOPS installées sur des tracteurs industriels, des niveleuses, des machines motrices, des bouteurs à chenilles, des chargeuses à chenilles, des bouteurs à roues, des chargeuses à roues, des chargeuses-pelleteuses, des tombereaux à châssis rigide, des compacteurs et des rouleaux compresseurs dont la masse est supérieure à 700 kg, sont énoncées dans les normes CAN/CSA-M3471 et ISO 3449.
- Les exigences en matière de performance établies à partir d'essais destructifs, s'appliquant aux structures ROPS, FOPS et OPS installées sur des engins forestiers automoteurs à roues ou à chenilles, y compris des porteurs, des débusqueuses, des abatteuses-groupeuses, des façonneuses, des abatteuses-façonneuses et des chargeuses, sont énoncées dans les normes CAN/CSA-M8082, ISO 8083 et ISO 8084.
- Les exigences en matière de performance établies à partir d'essais destructifs, s'appliquant aux structures TOPS et aux structures FOPS et OPS spécialisées installées sur des excavatrices compactes à flèche orientable ayant une masse comprise entre 1000 et 6000 kg, sont énoncées dans les normes CAN/CSA-M12117 et ISO 10262.

**B355-09, 5e édition**

*Appareils élévateurs pour personnes handicapées*

Papier ..... 105 $
PDF ..... 95 $

Cette norme énonce les exigences minimales de conception, de construction, d'installation et de fonctionnement des appareils élévateurs conçus spécialement pour le transport des personnes handicapées entre les divers niveaux d'un bâtiment ou d'une structure, dans le but d'assurer la protection contre le risque d'accidents associés au fonctionnement de ces appareils.

Cette norme énonce des exigences visant
a) les plates-formes verticales à gaine fermée ;
b) les plates-formes verticales à gaine non fermée ;
c) les fauteuils élévateurs d'escalier ;
d) les plates-formes d'escalier à gaine protégée ; et
e) les plates-formes d'escalier à gaine non protégée.

Cette norme contient des recommandations visant l'inspection, la mise à l'essai et l'entretien des appareils élévateurs conçus pour les personnes handicapées.

## Nouvelles normes — Nouvelles éditions — Publications spéciales (suite)

**B651.1-09, 2e édition**
*Conception accessible des guichets automatiques bancaires*
Papier ..... 55 $
PDF ..... 50 $

Cette norme énonce les exigences d'accessibilité visant les guichets automatiques bancaires (GAB) et les lieux où se trouvent les guichets.

Cette norme énonce des exigences techniques applicables à la conception et à la fabrication des
a) guichets intégrés au mur ;
b) des guichets autonomes ; et
c) des lieux où se trouvent les guichets.

Cette norme ne s'applique pas aux guichets pour service à l'auto.

**CAN/CSA-C22.2 n° 60601-1-3-09, 2e édition (bilingue)**
*Appareils électromédicaux — Partie 1-3 : Exigences générales pour la sécurité de base et les performances essentielles — Norme collatérale : Radioprotection dans les appareils à rayonnement X de diagnostic* (norme IEC 60601-1-3:2008, deuxième édition, adoptée sans modifications)
PDF seulement ..... 175 $

Cette norme collatérale s'applique aux appareils a rayonnement x et à leurs sousensembles, dont les images radiologiques d'un patient humain sont utilisées à des fins de diagnostic, de planification ou de guide pour les procédures médicales.

**CAN/CSA-C22.2 n° 60601-1-10-09, 1re édition (bilingue)**
*Appareils électromédicaux — Partie 1-10 : Exigences générales pour la sécurité de base et les performances essentielles — Norme collatérale : Exigences pour le développement des régulateurs physiologiques en boucle fermée* (norme IEC 60601-1-10:2007, première édition, adoptée sans modifications)
PDF seulement ..... 155 $

Cette norme spécifie les exigences pour le développement (analyse, conception, vérification et validation) d'un régulateur physiologique en boucle fermée (RPBF) en tant que partie d'un système physiologique de commande en boucle fermée (SPCBF) dans les appareils électromédicaux et les systèmes électromédicaux pour la commande d'une variable physiologique.

Cette norme s'applique aux différents types de RPBF, par exemple linéaire et non-linéaire, adaptatifs, fuzzy, réseaux de neurones.

Cette norme ne spécifie pas des exigences mécaniques additionnelles; ou des exigences électriques additionnelles.

Cette norme s'applique à un régulateur en boucle fermée qui règle la variable de sortie du régulateur afin d'ajuster (c'est-à-dire, changer ou maintenir) la variable physiologique mesurée en effectuant une comparaison avec la variable de référence.

## Nouvelles normes — Nouvelles éditions — Publications spéciales (suite)

**CAN/CSA-C22.2 n° 60601-2-2-09, 4e édition (bilingue)**
*Appareils électromédicaux — Partie 2-2 : Exigences particulières pour la sécurité de base et les performances essentielles des appareils d'électrochirurgie à courant haute fréquence et des accessoires d'électrochirurgie à courant haute fréquence* (norme IEC 60601-2-2:2009, cinquième édition, adoptée sans modifications)
PDF seulement .....245 $

Cette norme s'applique à la sécurité de base et aux performances essentielles des appareils d'électrochirurgie à courant haute fréquence.

Les appareils d'électrochirurgie à courant haute fréquence dont la puissance de sortie assignée est inférieure ou égale à 50 w (destinés, par exemple, à la micro coagulation, à l'ophtalmologie ou à l'usage dentaire) sont exemptés de certaines exigences de la présente norme particulière. Ces exemptions sont indiquées dans les exigences correspondantes.

**CAN/CSA-C22.2 n° 60601-2-19-09, 2e édition (bilingue)**
*Appareils électromédicaux — Partie 2-19 : Exigences particulières pour la sécurité de base et les performances essentielles des incubateurs pour nouveau-nés* (norme IEC 60601-2-19:2009, deuxième édition, adoptée sans modifications)
PDF seulement .....155 $

Cette norme s'applique à la sécurité de base et aux performances essentielles des incubateurs pour nouveau-nés.

**CAN/CSA-C22.2 n° 60601-2-31-09, 2e édition (bilingue)**
*Appareils électromédicaux — Partie 2-31 : Exigences particulières pour la sécurité de base et les performances essentielles des stimulateurs cardiaques externes à source d'énergie interne* (norme IEC 60601-2-31:2008, deuxième édition, adoptée sans modifications)
PDF seulement .....155 $

Cette norme s'applique à la sécurité de base et aux performances essentielles des stimulateurs externes alimentés par une source d'énergie électrique interne.

**CAN/CSA-C22.2 n° 60601-2-39-09, 2e édition (bilingue)**
*Appareils électromédicaux — Partie 2-39 : Exigences particulières pour la sécurité de base et les performances essentielles des appareils de dialyse péritonéale* (norme IEC 60601-2-39:2007, deuxième édition, adoptée sans modifications)
PDF seulement .....85 $

Cette norme s'applique à la sécurité de base et aux performances essentielles des appareils EM de dialyse péritonéale (DP). Elle s'applique aux appareils DP destinés à être utilisés soit par le personnel médical soit sous la supervision d'experts médicaux, y compris les appareils DP mis en fonctionnement par le patient, que l'appareil DP soit utilisé dans un hôpital ou dans un environnement domestique.

## Nouvelles normes — Nouvelles éditions — Publications spéciales (suite)

**CAN/CSA-M3463-09, 1re édition**
*Tracteurs agricoles et forestiers — Structures de protection contre le retournement (ROPS) — Méthode d'essai dynamique et conditions d'acceptation* (norme ISO 3463:2006, quatrième édition, adoptée sans modifications)
PDF seulement .....125 $

Cette norme complète la CSA B352.0.

Cette norme spécifie une méthode d'essai de charge dynamique et les conditions d'acceptation des structures de protection contre le retournement (cabine ou cadre) de tracteurs agricoles et forestiers à roues.

Elle est applicable aux tracteurs ayant au moins deux essieux équipés de roues à pneumatiques, ou portant des chenilles au lieu des roues, et ayant une masse de tracteur non lesté d'au moins 600 kg, mais généralement inférieure à 6 000 kg, et dont la largeur de voie minimale des roues arrière est supérieure à 1 150 mm.

**CAN/CSA-M5700-09, 1re édition**
*Tracteurs agricoles et forestiers — Structures de protection contre le retournement (ROPS) — Méthode d'essai statique et conditions d'acceptation* (norme ISO 5700:2006, quatrième édition, adoptée sans modifications)
PDF seulement .....120 $

Cette norme complète la CSA B352.0.

Cette norme spécifie une méthode d'essai de charge statique et les conditions d'acceptation des structures de protection contre le retournement (cabine ou cadre) des tracteurs agricoles et forestiers à roues.

Elle est applicable aux tracteurs ayant au moins deux essieux équipés de roues à pneumatiques, ou portant des chenilles au lieu des roues, ayant une masse de tracteur non lesté d'au moins 800 kg, et dont la largeur de voie minimale des roues arrière est supérieure à 1 150 mm.

**CAN/CSA-M12003-1-09, 1re édition**
*Tracteurs agricoles et forestiers — Structures de protection contre le retournement (ROPS) pour tracteurs à roues à voie étroite — Partie 1 : ROPS montées à l'avant* (norme ISO 12003-1:2008, deuxième édition, adoptée sans modifications)
PDF seulement .....140 $

Cette norme complète la CSA B352.0.

Cette norme spécifie des modes opératoires d'essai statique et dynamique, la zone de dégagement et les conditions d'acceptation des structures de protection contre le retournement (ROPS) à deux montants, rigides ou inclinables, montées à l'avant sur les tracteurs agricoles et forestiers à roues à voie étroite, y compris tout élément arrière associé. Elle est applicable aux tracteurs ainsi équipés, présentant les caractéristiques suivantes.

## Nouvelles normes — Nouvelles éditions — Publications spéciales (suite)

**CAN/CSA-M12003-1-09 (suite)**

- Garde au sol inférieure ou égale à 600 mm, au-dessous des points les plus bas de l'essieu avant et de l'essieu arrière, à l'exception des points inférieurs sur le différentiel de l'essieu.
- Largeur de voie minimale fixe ou réglable de l'un des deux essieux inférieure à 1 150 mm, avec les roues les plus larges spécifiées. Il est entendu que l'essieu monté avec les roues les plus larges est réglé à une largeur de voie inférieure ou égale à 1 150 mm. Il doit être possible de régler la largeur de voie de l'autre essieu de sorte que les bords extrêmes des roues les plus étroites ne dépassent pas les bords extrêmes des roues de l'autre essieu. Lorsque les deux essieux sont équipés de jantes et de roues de même taille, la largeur de voie fixe ou réglable des deux essieux doit être inférieure à 1 150 mm.
- Masse supérieure à 600 kg, mais inférieure à 3 000 kg, à vide, mais en comptant la ROPS et la plus grande taille de pneus recommandée par le constructeur.

**CAN/CSA-M12003-2-09, 1re édition**
*Tracteurs agricoles et forestiers — Structures de protection contre le retournement (ROPS) pour tracteurs à roues à voie étroite — Partie 2 : ROPS montées à l'arrière*
(norme ISO 12003-2:2008, deuxième édition, adoptée sans modifications)
PDF seulement .....135 $

Cette norme complète la CSA B352.0.

Cette norme spécifie des modes opératoires d'essai statique et dynamique, la zone de dégagement et les conditions d'acceptation des structures de protection contre le retournement (ROPS) à deux montants, rigides ou inclinables, en cabine, bâti ou arceau de sécurité, montées à l'arrière sur les tracteurs agricoles et forestiers à roues à voie étroite. Elle est applicable aux tracteurs ainsi équipés, présentant les caractéristiques suivantes.

- Garde au sol inférieure ou égale à 600 mm au-dessous des points les plus bas de l'essieu avant et de l'essieu arrière, à l'exception des points inférieurs sur le différentiel de l'essieu.
- Largeur de voie minimale fixe ou réglable de l'un des deux essieux inférieure à 1 150 mm, les pneus les plus larges spécifiés étant montés et la largeur globale de l'autre essieu étant inférieure à celle du premier essieu.
- Masse supérieure à 600 kg, mais inférieure à 3 000 kg, à vide, mais en comptant la ROPS et la plus grande taille de pneus recommandée par le constructeur.

## Nouvelles normes — Nouvelles éditions — Publications spéciales (suite)

**Z262.2-09, 4e édition**
*Protecteurs faciaux de hockey sur glace*
Papier ..... 55 $
PDF ..... 50 $

Cette norme énonce les exigences en matière de performance et les méthodes d'essai s'appliquant aux protecteurs faciaux commercialisés, vendus et destinés au hockey sur glace.

Cette norme établit les exigences relatives
a) à la fabrication ;
b) à la résistance à l'impact de la rondelle ;
c) à la pénétration ;
d) au champ de vision ; et
e) au marquage et aux renseignements.

Les types de protecteurs visés par la présente norme sont
a) type B1 ;
b) type B2 ;
c) type C ;
d) type D1 ; et
e) type D2.

La protection faciale est destinée aux joueurs, y compris les gardiens de but, et à certains employés (p. ex., arbitres et instructeurs).

**CAN/CSA-Z17665-2-09, 1re édition**
*Stérilisation des produits de santé — Chaleur humide — Partie 2 : Directives relatives à l'application de l'ISO 17665-1* (norme ISO/TS 17665-2:2009, première édition, adoptée sans modifications)
PDF seulement ..... 150 $

Cette norme fournit des directives générales sur le développement, la validation et le contrôle de routine de procédés de stérilisation par chaleur humide, et vise à expliquer les exigences présentées dans l'ISO 17665-1. Les directives fournies dans cette norme sont destinées à promouvoir les bonnes pratiques relatives aux procédés de stérilisation par chaleur humide et à faciliter le développement et la validation d'un procédé de stérilisation par chaleur humide conforme à l'ISO 17665-1.

## Amendments

**CAN/CSA-Z263.1-08**
*Recreational Alpine Skiing and Snowboarding Helmets*

Revision of the outside front cover and the title page. Addition of National Standards of Canada text.

## Modifications publiées en français

**CAN/CSA-Z263.1-08**
*Casques de ski alpin et de planche à neige à usage récréatif*

Des modifications ont été apportées à la première de couverture et à la page titre.
Le texte relatif aux Normes nationales du Canada a été ajouté.

# *Certification and Testing (CSA International)*

## Certification Notices

**Please note:** ▶ Notices marked with an arrowhead are new in this issue.

| Effective Date | Subject | Title |
|---|---|---|
| December 1, 2010 | Announcing additional marking requirements for CSA standard CAN/CSA Z262.2-M90, *Face Protectors and Visors for Ice Hockey Players,* and for CSA standard CAN/CSA Z262.1-M90, *Ice Hockey Helmets.* | Sports and Recreational Equipment No. 13 |
| May 1, 2011 | Publication of CSA standard Z262.1-09, *Ice Hockey Helmets.* | Sports and Recreational Equipment No. 14 |


**This issue contains no updates in this subject area**

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