



INFO UPDATE

Volume 6 — August/September 2009

Issue date: September 9, 2009

September 9, 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.

*Visit our web site at www.csa.ca and
find out just how convenient
and efficient it is to access
all the latest information.*

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 It contains important information about new and existing standards, e.g., recently published standards, and withdrawn standards.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.



Construction Products and Materials

[A23.1-09/A23.2-09, 11th edition](#)

Concrete Materials and Methods of Concrete Construction / Test Methods and Standard Practices for Concrete

[ASME A112.18.6-2009/CSA B125.6-09, 1st edition](#)

Flexible Water Connectors (bi-national standard with ASME A112.18.6-2009)

[A440S1-09, 2nd edition](#)

Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, “NAFS — North American Fenestration Standard/Specification for Windows, Doors, and Skylights”

[A440.2-09/A440.3-09, 5th edition](#)

Fenestration energy performance / User guide to CSA A440.2-09, “Fenestration energy performance” (Supersedes A453-95)

[G30.18-09, 2nd edition](#)

Carbon Steel Bars for Concrete Reinforcement

[S16-09, 7th edition](#)

Design of Steel Structures

[S367-09, 2nd edition](#)

Air-, Cable-, and Frame-Supported Membrane Structures

[Z240 MH Series-09, 3rd edition](#)

Manufactured Homes



Produits et matériaux de construction

[W55.3-08, 2^e édition](#)

Certification des compagnies de soudage par résistance de l'acier et de l'aluminium



Electrical/Electronics

[C22.2 No. 5-09, 2nd edition](#)

Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures (tri-national standard with NMX-J-266-ANCE, third edition, and UL 489, eleventh edition)

[C22.2 No. 35-09, 6th edition](#)

Extra-Low-Voltage Control Circuit Cable, Low-Energy Control Cable, and Extra-Low-Voltage Control Cable

[C22.2 No. 51-09, 11th edition](#)

Armoured Cables

Electrical/Electronics (cont'd)

[C22.2 No. 140.3-09, 2nd edition](#)

Refrigerant-Containing Components for Use in Electrical Equipment

[C22.2 No. 232-09, 2nd edition](#)

Optical Fiber Cables

[C22.2 No. 1993-09, 1st edition](#)

Self-Ballasted Lamps and Lamp Adapters (tri-national standard with NMX-J-578/1-ANCE, first edition, and UL 1993, third edition)

[C22.2 No. 2420-09, 1st edition](#)

Belowground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings
(bi-national standard with UL 2420, first edition)

[C22.2 No. 2515-09, 1st edition](#)

Aboveground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings
(bi-national standard with UL 2515, first edition)

[CAN/CSA-C22.2 No. 61010-2-020-09, 2nd edition \(bilingual\)](#)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-020: Particular requirements for laboratory centrifuges (Adopted CEI/IEC 61010-2-020:2006, second edition, without modification)

[CAN/CSA-C22.2 No. 61058-1-09, 2nd edition](#)

Switches for Appliances — Part 1: General Requirements (bi-national standard with UL 61058-1, fourth edition. Adopted IEC 61058-1:2008, edition 3.2, with Canadian/US national deviations)

[CAN/CSA-C61000-3-13-09, 1st edition](#)

Electromagnetic compatibility (EMC) — Part 3-13: Limits — Assessment of emission limits for the connection of unbalanced installations to MV, HV and EHV power systems
(Adopted IEC/TR 61000-3-13:2008, first edition, without modification)

[CAN/CSA-C61000-4-6-09, 2nd edition \(bilingual\)](#)

Electromagnetic compatibility (EMC) — Part 4-6: Testing and measurement techniques — Immunity to conducted disturbances, induced by radio-frequency fields
(Adopted IEC 61000-4-6:2003, second edition, including Amendment 1:2004 and Amendment 2:2006, without modification)

[CAN/CSA-C61000-6-1-09, 1st edition \(bilingual\)](#)

Electromagnetic compatibility (EMC) — Part 6-1: Generic standards — Immunity for residential, commercial and light-industrial environments (Adopted IEC 61000-6-1:2005, second edition, without modification)

[CAN/CSA-CEI/IEC CISPR 13-09, 1st edition \(bilingual\)](#)

Sound and television broadcast receivers and associated equipment — Radio disturbance characteristics — Limits and methods of measurement (Adopted IEC CISPR 13:2001, edition 4.0, including Amendment 1:2003 and Amendment 2:2006, without modification)

Electrical/Electronics (cont'd)

[CAN/CSA-E60974-5-09 \(bilingual\)](#)

Arc welding equipment — Part 5: Wire feeders (Adopted IEC 60974-5:2007, second edition, with Canadian deviations)



Électricité et électronique

[CAN/CSA-C22.2 n° 61010-2-020-09, 2^e édition \(bilingue\)](#)

Règles de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire — Partie 2-020 : Exigences particulières pour centrifugeuses de laboratoire (norme CEI/IEC 61010-2-020:2006, deuxième édition, adoptée sans modification)

[CAN/CSA-C61000-4-6-09, 2^e édition \(bilingue\)](#)

Compatibilité électromagnétique (CEM) — Partie 4-6 : Techniques d'essai et de mesure — Immunité aux perturbations conduites, induites par les champs radioélectriques (norme CEI 61000-4-6:2003, deuxième édition, comprenant l'amendement 1:2004 et l'amendement 2:2006, adoptée sans modification)

[CAN/CSA-C61000-6-1-09, 1^{re} édition \(bilingue\)](#)

Compatibilité électromagnétique (CEM) — Partie 6-1 : Normes génériques — Immunité pour les environnements résidentiels, commerciaux et de l'industrie légère (norme CEI 61000-6-1:2005, deuxième édition, adoptée sans modification)

[CAN/CSA-CEI/IEC CISPR 13-09, 1^{re} édition \(bilingue\)](#)

Récepteurs de radiodiffusion et de télévision et équipements associés — Caractéristiques des perturbations radioélectriques — Limites et méthodes de mesure (norme CEI CISPR 13:2001, quatrième édition, comprenant l'amendement 1:2003 et l'amendement 2:2006, adoptée sans modification)

[CAN/CSA-E60974-5-09, 2^e édition \(bilingue\)](#)

Matériel de soudage à l'arc — Partie 5 : Dévidoirs (norme CEI 60974-5, deuxième édition, adoptée avec exigences propres au Canada)



Energy

[N294-09, 1st edition](#)

Decommissioning of Facilities Containing Nuclear Substances

[Z245.11-09, 6th edition](#)

Steel Fittings

[Z245.12-09, 6th edition](#)

Steel Flanges

[Z245.15-09, 7th edition](#)

Steel Valves

Energy (cont'd)

[Z246.1-09, 1st edition](#)

Security Management for Petroleum and Natural Gas Industry Systems



Énergie

[C804-09, 2^e édition](#)

Performances énergétiques des distributeurs automatiques



Gas Equipment

[ANSI Z21.15-2009/CSA 9.1-2009, 2nd edition](#)

Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves

[ANSI Z83.19-2009/CSA 2.35-2009, 2nd edition](#)

Gas-Fired High-Intensity Infrared Heaters



Life Sciences

[Z7396.1-09, 2nd edition](#)

Medical gas pipeline systems — Part 1: Pipelines for medical gases and vacuum



Sciences de la Vie

[B51-09, 17^e édition](#)

Code sur les chaudières, les appareils et les tuyauteries sous pression

[Z96-07, 2^e édition](#)

Vêtements de sécurité à haute visibilité

[Z98-07, 6^e édition](#)

Remontées mécaniques et convoyeurs



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



Completed Projects / Projets terminés

New Standards – New Editions – Special Publications

A23.1-09/A23.2-09, 11th edition

Concrete Materials and Methods of Concrete Construction / Test Methods and Standard Practices for Concrete

Paper	\$175
PDF	\$160

A23.1-09 provides the requirements for materials and methods of construction for the following:

- cast-in-place concrete and concrete precast in the field
- residential concrete used in the construction of buildings conforming to Part 9 of the *National Building Code of Canada* (NBCC).

A23.2-09 covers the principal test methods for hardened and freshly mixed concrete and for concrete materials, as specified in CSA A23.1 and CSA A23.4. The test methods are organized as follows:

- aggregate test methods
- miscellaneous
- concrete test methods
- dimensional (moulds).

ASME A112.18.6-2009/CSA B125.6-09, 1st edition

Flexible Water Connectors (bi-national standard with ASME A112.18.6-2009)

Paper	\$95
PDF	\$85

This standard covers flexible water connectors for use in water supply systems under:

- continuous pressure in accessible locations
- intermittent pressure in recreational vehicles only.

A440S1-09, 2nd edition

Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, “NAFS — North American Fenestration Standard/Specification for Windows, Doors, and Skylights”

Paper	TBA
PDF	\$70

This supplement is for use in conjunction with AAMA/WDMA/CSA 101/I.S.2/A440 and contains additional requirements for Canada.



A440.2-09/A440.3-09, 5th edition

Fenestration energy performance / User guide to CSA A440.2-09, “Fenestration energy performance” (Supersedes A453-95)

Paper.....	TBA
PDF.....	\$170

A440.2 applies to the determination of energy performance properties for a variety of fenestration systems, including fixed windows, operable windows, sliding glass doors, hinged doors, skylights with flat glazings, and curtain walls. It includes the following energy performance properties, that apply to all building types (residential, commercial, and other):

- overall coefficient of heat transfer (U-factor)
- solar heat gain coefficient (SHGC)
- visible transmittance (VT)

These properties, along with a visible transmittance, can be evaluated using either computer simulation or measurement.

In addition, CSA A440.2 provides a means for determining a comparative Energy Rating (ER) for fixed and operable windows, sliding doors, and hinged doors to be used in low-rise residential housing. The ER combines the U-factor, SHGC, and heat losses resulting from air leakage into a single rating that allows the energy performance of fixed and operable windows, sliding doors, and hinged doors to be compared over an average heating season. Assumptions have been made about the size of the fixed and operable windows, sliding doors, and hinged doors in order to develop the ER.

A440.3 has been prepared to explain the content and use of A440.2.

G30.18-09, 2nd edition

Carbon Steel Bars for Concrete Reinforcement

Paper.....	\$110
PDF.....	\$100

This standard specifies requirements for two types of hot-rolled deformed carbon steel bars, designated regular (R) and weldable (W). The designation R is used for specifying, ordering, and communication only and is not rolled onto the bar. The designation W is rolled onto the bar. The two types are distinguished by their chemical composition requirements. The bars can be in cut lengths or coils. Plain bars (Type R only) are also included in this standard.

R grades are intended for general applications. W grades are appropriate for applications where any of the following conditions are desirable:

- enhanced weldability
- enhanced ductility
- restricted mechanical properties
- restricted chemical composition.

This standard specifies two minimum yield strength levels: 400 MPa (designated as Grades 400R and 400W) and 500 MPa (designated as Grades 500R and 500W).

New Standards – New Editions – Special Publications (cont’d)

S16-09, 7th edition

Design of Steel Structures

Paper.....	TBA
PDF	\$160

This standard provides rules and requirements for the design, fabrication, and erection of steel structures. The design is based on limit states. The term “steel structures” refers to structural members and frames that consist primarily of structural steel components, including the detail parts, welds, bolts, or other fasteners required in fabrication and erection. This standard also applies to structural steel components in structures framed in other materials. The clauses related to fabrication and erection, serve to show that design is inextricably a part of the design-fabrication-erection sequence and cannot be considered in isolation.

S367-09, 2nd edition

Air-, Cable-, and Frame-Supported Membrane Structures

Paper.....	\$90
PDF	\$80

This standard provides requirements for the design, fabrication, installation, and maintenance of single-membrane structures that are either reinforced or unreinforced and that are air-supported, frame-supported, or cable-supported.

The general requirements, structural design methods, loadings, and limit states specified in this standard are intended to be consistent with the *National Building Code of Canada (NBCC)*, except where more detailed or stringent requirements are necessary for the structural adequacy and the long-term serviceability of structures.

This standard applies to independent membrane-covered structures and structures that are contiguous with other structures and that are attached through a common element.

Z240 MH Series-09, 3rd edition

Manufactured Homes

Paper.....	\$165
PDF	\$150

This series consists of the following standards:

- **Z240.0.1-09, *General Requirements for Manufactured Homes*.** This standard specifies general requirements for manufactured homes, including quality requirements and requirements on equivalency of performance, interior markings, and provision of printed instructions.
- **Z240.1.1-09, *Vehicular Requirements for Manufactured Homes*.** This standard specifies minimum vehicular requirements for manufactured homes and covers couplings, tongues, A-frames, and limited-use or returnable running gear.



New Standards – New Editions – Special Publications (cont'd)

Z240 MH Series-09 (cont'd)

- **Z240.2.1-09, *Structural Requirements for Manufactured Homes.*** This standard specifies the minimum requirements for materials, products, equipment, and quality of work needed to ensure that manufactured homes will provide adequate :
 - a) structural strength and rigidity
 - b) protection against corrosion, decay, insects, and other similar destructive forces;
 - c) protection against the hazards of fire
 - d) resistance to the elements
 - e) durability and economy of maintenance.
- **Z240.4.1-09, *Installation Requirements for Gas-Burning Appliances in Manufactured Homes.*** This standard applies to the factory installation of gas-burning appliances and equipment in manufactured homes.
- **Z240.5.1-09, *Installation Requirements for Oil-fired Appliances in Manufactured Homes.*** This standard applies to the factory installation of oil-fired appliances, accessories, and equipment on or within manufactured homes, including specially designed or modified units, such as, industrial or commercial trailers.
- **Z240.9.1-09, *Load Calculation and Duct Design Requirements for Heating and Cooling of Manufactured Homes.*** This standard specifies requirements for the following:
 - calculating heat loss and heat gain in manufactured homes
 - the design of supply and return air duct systems in manufactured homes.

Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français

W55.3-08, 2^e édition

Certification des compagnies de soudage par résistance de l'acier et de l'aluminium

Papier.....	70 \$
PDF	65 \$

Cette norme énonce les exigences visant la certification des compagnies effectuant des travaux de soudage par résistance de l'acier et de l'aluminium.

Cette norme énonce les exigences visant

- la qualification du personnel ;
- la qualification des modes opératoires de soudage ; et
- les méthodes de contrôle des procédés.



Amendments

CAN/CSA-A23.3-04

Design of Concrete Structures

Revision of the Table of Contents, Clauses 2.1, 2.2, 2.3, 9.8.2.3, 9.8.2.4, 10.13.1, 11.2.8.1, 11.2.12.2, 11.3.9.2, 11.3.9.3, 13.3.4.2, 13.3.5.1, 13.3.6.2, 13.11.2.7, 14.1.2, 14.1.8.7, 14.1.8.8.3, 14.4.3, 21.2.2, 21.3.4.1, 21.4.4.2, 21.4.5.1, 21.5.1.2, 21.6.2.2, 21.6.9.1, 21.7.2.2.2, 21.7.2.3, 21.7.3.3.2, 21.7.3.4.1, 21.7.4.2, 21.7.4.7, 21.7.4.8, 21.8.1, 21.8.2, 21.8.3.2, 21.11.1.2, 21.11.2.5, 21.12.1, 21.12.2, Annex A, D.3, D.4.3.1, D.4.3.4–D.4.3.8, D.6.3.3, D.7.2.1, Tables B.1 and B.2, and Figure 11.3. Addition of Clauses 20.3.1.A, D.7.2.8, and D.7.2.9.

ASME A112.19.2-2008/CSA B45.1-08

Ceramic Plumbing Fixtures

Revision of Clauses 3, 7.4.5, and 9.3.2, and Table 5.

ASME A112.19.3-2008/CSA B45.4-08

Stainless Steel Plumbing Fixtures

Revision of Clause 1.2.

A231.1-06/A231.2-06

Precast Concrete Paving Slabs / Precast Concrete Pavers

In A231.2-06: Revision of Clauses 7.2.1 and 7.3.5.1.

A3000-08

Cementitious Materials Compendium

The following revisions have been made to this compendium:

- **A3001-08:** Revision of Clauses 3 and 4.4.3 and Table 3
- **A3003-08:** Revision of Clause 14.2.1
- **A3004-08:** Revision of Test Method B3: Clause 7.1.1.2.

CAN/CSA-S157-05/S157.1-05

Strength Design in Aluminum / Commentary on CSA S157-05, “Strength Design in Aluminum”

The following revisions have been made to this document:

- **S157-05:** Revision of the Contents and Clauses 2, 3.1, 3.2.1, 4.4.2, 4.4.6, 5.2, 5.3.1, 5.4, 5.4.1, 5.4.2, 5.6, 5.7, 11.2.4.3, 13.3.1.2, and A6. Deletion of Clauses 5.4.3 and 5.4.4.
- **S157.1-05:** Revision of Clause C11.2.4.3. Deletion of Clause C5.4.

CAN/CSA-S806-02 (R2007)

Design and Construction of Building Components with Fibre-Reinforced Polymers

Revision of Clauses 8.4.5.2 and 10.6.2.3, and Table 14.



Amendments (cont'd)

Z240 RV Series-08

Recreational Vehicles

In **Z240.4.2-08**: Revision of Clause 12.1.1.

Modifications publiées en français

ASME A112.19.2-2008/CSA B45.1-08

Appareils sanitaires en céramique

Des modifications ont été apportées aux articles 3, 7.4.5 et 9.3.2 et au tableau 5.

ASME A112.19.3-2008/CSA B45.4-08

Appareils sanitaires en acier inoxydable

Des modifications ont été apportées à l'article 1.2.

AAMA/WDMA/CSA 101/I.S.2/A440-08

Norme nord-américaine sur les fenêtres (NAFS)/Spécification relative aux fenêtres, aux portes et aux lanterneaux

Des modifications ont été apportées aux tableaux 4 et 27.

S157-05/S157.1-05

Calcul de la résistance mécanique des éléments en aluminium / Commentaire sur la CSA S157-05, « Calcul de la résistance mécanique des éléments en aluminium »

Les modifications suivantes ont été effectuées dans ce document :

- **S157-05** : Modification de la table des matières, du chapitre 2 et des articles 3.1, 3.2.1, 4.4.2, 4.4.6, 5.2, 5.3.1, 5.4, 5.4.1, 5.4.2, 5.6, 5.7, 11.2.4.3, 13.3.1.2 et A6. Abrogation des articles 5.4.3 et 5.4.4.
- **S157.1-05** : Modification de l'article C11.2.4.3. Abrogation de l'article C5.4.

CAN/CSA-S806-02 (C2007)

Règles de calcul et de construction des composants contenant des polymères renforcés de fibres

Des modifications ont été apportées aux articles 8.4.5.2 et 10.6.2.3 et au tableau 14.

W178.2-08

Qualification des inspecteurs en soudage

Des modifications ont été apportées à l'article 9.3.

Z240 VC Série-08

Véhicules de camping

Dans la **Z240.4-08** : Des modifications ont été apportées l'article 12.1.1.



Reaffirmed Standards

CAN/CSA-B127.1-99 (R2009)

Asbestos Cement Drain, Waste, and Vent Pipe and Pipe Fittings

Formal Interpretations

The following interpretation regarding Clause 9.2.2.2 of CSA standard CAN/CSA-O80.1-08 (O80 Series-08), *Specification of Treated Wood*, has been approved by the Technical Committee on Wood Preservation.

Question: In Table 2 of CSA O80.1, lumber and timber for highway construction is identified as use category 4.1. Table 10 of CSA O80.1, which lists preservative retentions for solid sawn products, lists retentions for ACQ-C and ACQ-D. Under the specific requirements in Clause 9.2.2.2, however, ACQ is not one of the identified preservatives. Please confirm if ACQ 6.4 kg/m³ in the use category 4.1 is acceptable for inclusion in Clause 9.2.2.2 of wood for highway construction.

Answer: No.

Certification and Testing (CSA International)

Certification Notices

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

Effective Date	Subject	Title
October 1, 2009	Revised requirements for the acceptance of non-CSA-certified gas, electrical, and plumbing products in recreational vehicles, park model trailers, mobile homes, and modular homes. (Supersedes Building Products No. 14 & 14A / Recreational Vehicles No. 28 & 28A.)	Building Products No. 14B / Recreational Vehicles No. 28B
June 1, 2010	Publication of CSA B137 Series-05, <i>Thermoplastic Pressure Pipe Compendium</i> .	Plumbing Products No. 193



Completed Projects / Projets terminés

New Standards – New Editions – Special Publications

C22.2 No. 5-09, 2nd edition

Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures
(tri-national standard with NMX-J-266-ANCE, third edition, and UL 489, eleventh edition)

PDF only \$730

This standard covers molded-case circuit breakers, circuit breaker and ground-fault circuit-interrupters, fused circuit breakers, and accessory high-fault protectors. These circuit breakers are specifically intended to provide service entrance, feeder, and branch circuit protection in accordance with national installation codes. This standard also covers instantaneous-trip circuit breakers (circuit interrupters) specifically intended for use as part of a combination motor controller in accordance with national installation codes.

This standard covers molded-case switches and fused molded-case switches.

This standard covers devices rated at 600 volts or less and 6000 amperes or less.

C22.2 No. 35-09, 6th edition

Extra-Low-Voltage Control Circuit Cable, Low-Energy Control Cable, and Extra-Low-Voltage Control Cable

PDF only \$150

This standard specifies requirements for the following types of control cables, rated 30 V maximum, intended for use in extra-low-voltage control circuits in accordance with the rules of the *Canadian Electrical Code, Part I*:

- Type LVT extra-low-voltage control circuit cables, rated 60 °C maximum
- low-energy control cable, rated 105 °C maximum
- Type ELC extra-low-voltage control cable, rated 60 °C maximum
- golf course and lawn sprinkler wire, low-voltage, and low-energy circuit cables, rated 60 °C maximum.

C22.2 No. 51-09, 11th edition

Armoured Cables

PDF only \$110

This standard specifies requirements for single- and multi-conductor insulated cables having metallic interlocked armour without an overall jacket (Type AC90 or ACG90) or with an overall jacket (Type ACWU90 or ACGWU90) that are intended for installation in accordance with the *Canadian Electrical Code, Part I*, on systems having nominal voltages of 600 V and less. ACG90 and ACGWU90 apply to multi-conductor insulated cables only.

This standard specifies requirements for cables having insulated conductors in sizes 14 AWG to 2000 kcmil. The maximum conductor temperature rating is 90 °C.



New Standards – New Editions – Special Publications (cont'd)

C22.2 No. 140.3-09, 2nd edition

Refrigerant-Containing Components for Use in Electrical Equipment

PDF only \$90

This standard applies to refrigerant-containing components for use in field-installed systems in accordance with CSA B52 and that are charged with the refrigerant identified for use in the components.

This standard applies to refrigerant-containing components for use in factory-assembled refrigeration or air-conditioning equipment and that are bound also by the pertinent requirements of CSA C22.2 standards.

This standard applies to refrigerant-containing components such as accumulators, condensers, evaporators, dryers, filters, heat exchangers, oil separators, liquid receivers, mufflers, liquid indicators, vibration eliminators, strainers, fusible plugs, and rupture members.

C22.2 No. 232-09, 2nd edition

Optical Fiber Cables

PDF only \$150

This standard applies to non-conductive optical fiber cable and conductive optical fiber cable intended to be installed indoors in non-hazardous locations in accordance with the *Canadian Electrical Code, Part I*.

This standard does not cover hybrid optical fiber cables whose construction (excluding the optical fiber component) is covered in other applicable standards of the *Canadian Electrical Code, Part II*.

C22.2 No. 1993-09, 1st edition

Self-Ballasted Lamps and Lamp Adapters (tri-national standard with NMX-J-578/1-ANCE, first edition, and UL 1993, third edition)

PDF only \$370

This standard provides requirements to cover both self-ballasted lamps and self-ballasted lamp adapters rated 120 to 347 V AC nominal for connection to screw-, pin-base, and recessed single contact (RSC or R7) lampholders. These devices are intended for use in accordance with the *National Electrical Code*, ANSI/NFPA 70, and the *Canadian Electrical Code, Part I*, in non-hazardous locations, and the *Instalaciones Eléctricas (utilización)*, NOM-001-SEDE.

These devices incorporate resistance, reactance, or electronic (solid-state) type ballasts or power supplies. These devices employ various lamp technologies including, but not limited to, incandescent, fluorescent, high-intensity discharge lamps, light-emitting diodes.

This standard does not apply to medium-to-medium base (E26) fittings that incorporate controls such as photocells, motion detectors, radio controls, or dimmers covered by other standards.

These devices are not intended for use with emergency exit fixtures or emergency exit lights.

New Standards – New Editions – Special Publications (cont’d)

C22.2 No. 2420-09, 1st edition

Belowground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings (bi-national standard with UL 2420, first edition)

PDF only \$370

This standard specifies the requirements for low-halogen belowground (Type BG) reinforced thermosetting resin conduit (RTRC) and fittings, for installation and use in accordance with the *Canadian Electrical Code, Part I*, and the *National Electrical Code*.

The products specified in this standard are intended for use at -40 °C (-40 °F) to 110 °C (230 °F).

Type BG conduit has not been evaluated for directional boring applications.

This standard covers ID (dimensions based on inside diameters) and IPS (dimensions based on outside diameters of iron pipe sizes) conduit and fittings. Trade sizes (metric designators) are 1/2 (16) to 6 (155).

This standard covers conduit with designations EB (encased burial) and DB (direct burial), which refer to specific wall thicknesses. EB conduit, is suitable for encasement in concrete. DB conduit is suitable for encasement in concrete and direct burial.

C22.2 No. 2515-09, 1st edition

Aboveground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings (bi-national standard with UL 2515, first edition)

PDF only \$370

This standard specifies the requirements for low-halogen aboveground (Type AG) reinforced thermosetting resin conduit (RTRC) and fittings for installation and use in accordance with the *Canadian Electrical Code, Part I*, and the *National Electrical Code* , in non-hazardous locations.

The products specified in this standard are intended for use at -40 °C (-40 °F) to 110 °C (230 °F). The products are for use above ground in exposed and concealed locations. The products are also suitable for use below ground by direct burial or by encasement in concrete.

Type AG conduit has not been evaluated for directional boring applications.

This standard covers ID (dimensions based on inside diameters) and IPS (dimensions based on outside diameters of iron pipe sizes) conduit and fittings. Trade sizes (metric designators) are 1/2 (16) to 6 (155).

ID and IPS conduit are designated as SW (Standard Wall) or HW (Heavy Wall), which refer to specific wall thicknesses.

CAN/CSA-C22.2 No. 61010-2-020-09, 2nd edition (bilingual)

Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 2-020: Particular requirements for laboratory centrifuges (Adopted CEI/IEC 61010-2-020:2006, second edition, without modification)

PDF only \$125

This standard applies to electrically powered laboratory centrifuges.



New Standards – New Editions – Special Publications (cont'd)

CAN/CSA-C22.2 No. 61058-1-09, 2nd edition

Switches for Appliances — Part 1: General Requirements (bi-national standard with UL 61058-1, fourth edition. Adopted IEC 61058-1:2008, edition 3.2, with Canadian/US national deviations)

PDF only \$475

This standard applies to switches (mechanical or electronic) for appliances actuated by hand, by foot or by other human activity, to operate or control electrical appliances and other equipment for household or similar purposes with a rated voltage not exceeding 480 V and a rated current not exceeding 63 A.

These switches are intended to be operated by a person, via an actuating member or by actuating a sensing unit. The actuating member or sensing unit can be integral with or arranged separately, either physically or electrically, from the switch and may involve transmission of a signal – for example electrical, optical, acoustic or thermal – between the actuating member of the sensing unit and the switch.

Switches that incorporate additional control functions governed by the switch function are within the scope of this standard.

CAN/CSA-C61000-3-13-09, 1st edition

Electromagnetic compatibility (EMC) — Part 3-13: Limits — Assessment of emission limits for the connection of unbalanced installations to MV, HV and EHV power systems (Adopted IEC/TR 61000-3-13:2008, first edition, without modification)

PDF only \$195

This standard provides guidance on principles that can be used for determining the requirements for the connection of unbalanced installations (i.e. three-phase installations causing voltage unbalance) to MV, HV and EHV public power systems. For the purposes of this standard, an unbalanced installation means a three-phase installation (which may be a load or a generator) that produces voltage unbalance on the system. The connection of single-phase installations is not specifically addressed, as the connection of such installations is under the control of the system operator or owner. However, the general principles however may be adapted when considering the connection of single-phase installations.

The primary objective is to provide guidance to system operators or owners on engineering practices, which will facilitate the provision of adequate service quality for all connected customers. In addressing installations, this document is not intended to replace equipment standards for emission limits.

New Standards – New Editions – Special Publications (cont’d)

CAN/CSA-C61000-4-6-09, 2nd edition (bilingual)

Electromagnetic compatibility (EMC) — Part 4-6: Testing and measurement techniques — Immunity to conducted disturbances, induced by radio-frequency fields (Adopted IEC 61000-4-6:2003, second edition, including Amendment 1:2004 and Amendment 2:2006, without modification)

PDF only \$220

This standard relates to the conducted immunity requirements of electrical and electronic equipment to electromagnetic disturbances coming from intended radio-frequency (RF) transmitters in the frequency range 9 kHz up to 80 MHz. Equipment not having at least one conducting cable (such as mains supply, signal line or earth connection) that can couple the equipment to the disturbing RF fields is excluded.

The object of this standard is to establish a common reference for evaluating the functional immunity of electrical and electronic equipment when subjected to conducted disturbances induced by radio-frequency fields. The test method documented in this standard describes a consistent method to assess the immunity of an equipment or system against a defined phenomenon.

CAN/CSA-C61000-6-1-09, 1st edition (bilingual)

Electromagnetic compatibility (EMC) — Part 6-1: Generic standards — Immunity for residential, commercial and light-industrial environments (Adopted IEC 61000-6-1:2005, second edition, without modification)

PDF only \$85

This standard for EMC immunity requirements applies to electrical and electronic apparatus intended for use in residential, commercial and light-industrial environments. Immunity requirements in the frequency range 0 Hz to 400 GHz are covered. No tests need to be performed at frequencies where no requirements are specified.

This standard is applicable if no relevant dedicated product or product-family EMC immunity standard exists.

CAN/CSA-CEI/IEC CISPR 13-09, 1st edition (bilingual)

Sound and television broadcast receivers and associated equipment — Radio disturbance characteristics — Limits and methods of measurement (Adopted IEC CISPR 13:2001, edition 4.0, including Amendment 1:2003 and Amendment 2:2006, without modification)

PDF only \$220

This standard applies to the generation of electromagnetic energy from sound and television receivers for the reception of broadcast and similar transmissions and from associated equipment. The frequency range covered extends from 9 kHz to 400 GHz.



New Standards – New Editions – Special Publications (cont'd)

CAN/CSA-E60974-5-09 (bilingual)

Arc welding equipment — Part 5: Wire feeders (Adopted IEC 60974-5:2007, second edition, with Canadian deviations)

PDF only \$95

This standard specifies safety and performance requirements for industrial and professional equipment used in arc welding and allied processes to feed filler wire.

The wire feeder may be a stand-alone unit which may be connected to a separate welding power source or one where the welding power source and the wire feeder are housed in a single enclosure.

The wire feeder may be suitable for manually or mechanically guided torches.

Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français

CAN/CSA-C22.2 n° 61010-2-020-09, 2^e édition (bilingue)

Règles de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire — Partie 2-020 : Exigences particulières pour centrifugeuses de laboratoire (norme CEI/IEC 61010-2-020:2006, deuxième édition, adoptée sans modification)

PDF seulement 125 \$

Cette norme est applicable aux centrifugeuses de laboratoire alimentées en énergie électrique.

CAN/CSA-C61000-4-6-09, 2^e édition (bilingue)

Compatibilité électromagnétique (CEM) — Partie 4-6 : Techniques d'essai et de mesure — Immunité aux perturbations conduites, induites par les champs radioélectriques (norme CEI 61000-4-6:2003, deuxième édition, comprenant l'amendement 1:2004 et l'amendement 2:2006, adoptée sans modification)

PDF seulement 220 \$

Cette norme se rapporte aux prescriptions relatives à l'immunité en conduction des équipements électriques et électroniques aux perturbations électromagnétiques provoquées par des émetteurs RF, dans la plage de fréquences de 9 kHz à 80 MHz. Les matériels n'ayant pas au moins un câble conducteur (tel que cordons d'alimentation, lignes de transmission de signaux ou connexions de mise à la terre) pouvant coupler les matériels aux champs RF perturbateurs ne sont pas concernés par cette norme.

L'objet de cette norme est d'établir une référence commune dans le but d'évaluer l'immunité fonctionnelle des matériels électriques et électroniques, quand ils sont soumis aux perturbations conduites induites par les champs radiofréquence. La méthode d'essai documentée dans cette partie de la CEI 61000, décrit une méthode cohérente dans le but d'évaluer l'immunité d'un matériel vis-à-vis d'un phénomène défini.

**Nouvelles normes – Nouvelles éditions – Publications spéciales (suite)****CAN/CSA-C61000-6-1-09, 1^{re} édition (bilingue)**

Compatibilité électromagnétique (CEM) — Partie 6-1 : Normes génériques — Immunité pour les environnements résidentiels, commerciaux et de l'industrie légère (norme CEI 61000-6-1:2005, deuxième édition, adoptée sans modification)

PDF seulement 85 \$

Cette norme concernant les exigences d'immunité en matière de compatibilité électromagnétique s'applique aux appareils électriques et électroniques destinés à être utilisés dans des environnements résidentiels, commerciaux et de l'industrie légère. Cette partie couvre les exigences d'immunité dans la gamme de fréquences de 0 Hz à 400 GHz. Il n'est pas nécessaire de réaliser des essais aux fréquences pour lesquelles aucune exigence n'est spécifiée.

Cette norme générique d'immunité CEM s'applique en l'absence de norme d'immunité CEM applicable, spécifique à un produit ou à une famille de produits.

CAN/CSA-CEI/IEC CISPR 13-09, 1^{re} édition (bilingue)

Récepteurs de radiodiffusion et de télévision et équipements associés — Caractéristiques des perturbations radioélectriques — Limites et méthodes de mesure (norme CEI CISPR 13:2001, quatrième édition, comprenant l'amendement 1:2003 et l'amendement 2:2006, adoptée sans modification)

PDF seulement 220 \$

Cette norme s'applique à la production d'énergie électromagnétique provenant des récepteurs de radiodiffusion et de télévision pour la réception des transmissions de radiodiffusion et similaires, et des équipements associés. La gamme de fréquences considérée s'étend de 9 kHz à 400 GHz.

CAN/CSA-E60974-5-09, 2^e édition (bilingue)

Matériel de soudage à l'arc — Partie 5 : Dévidoirs (norme CEI 60974-5, deuxième édition, adoptée avec exigences propres au Canada)

PDF seulement 95 \$

Cette norme spécifie les exigences de sécurité et de performance pour le matériel utilisé en soudage à l'arc et les techniques connexes pour l'alimentation en fil d'apport.

Le dévidoir peut être une unité indépendante pouvant être raccordée à une source de courant de soudage séparée ou une unité intégrant la source de courant de soudage et le dévidoir dans une enveloppe unique.

Le dévidoir peut être adapté aux torches guidées manuellement ou mécaniquement.

Amendments

C22.2 No. 48-09

Nonmetallic Sheathed Cable

Revision of Clauses 5.2.1 and 7.5.8.2.

This document is available in Portable Document Format (PDF) only.



Amendments (cont'd)

CAN/CSA-C22.2 No. 110-94 (R2004)

Construction and Test of Electric Storage-Tank Water Heaters

Revision of Clauses 2.1, 4.10.1, 4.13.7.1–4.13.7.3, 5.8.1, and 5.8.2 and Appendix A.

This document is available in Portable Document Format (PDF) only.

C22.2 No. 178.1-07

Requirements for Transfer Switches

Revision of Clause 4.9.11.

This document is available in Portable Document Format (PDF) only.

CAN/CSA-C22.2 No. 227.3-05

Nonmetallic Mechanical Protection Tubing (NMPT)

Revision of the title page, the copyright page, the table of contents, the preface, Clauses 1.1, 1.2, 4.1.1, 4.2, 4.4.1, 5.7.1, 5.9.1, 6.1.1, 6.2.1.1, and 6.2.2.1, and Table 5. Deletion of the UL Foreword, Clauses 4.2.1.1, 4.2.2, 4.2.2.1, 4.2.3, and 4.2.3.1, Tables 1–4, and Figure 1.

This document is available in Portable Document Format (PDF) only.

CAN/CSA-C22.2 No. 236-05

Heating and Cooling Equipment

Revision of the title page, the copyright page, the table of contents, and Clauses 2, 19.29, 30.8, 33.2, 36.3, 62.2, 62.11, and 68.2. Addition of Clauses 4.4, 33.25A, 33.26A–33.26C, 36.20–36.27, 37.12–37.14, and 64A and the Table 68.1 Note.

This document is available in Portable Document Format (PDF) only.

Modifications publiées en français

CAN/CSA-C22.2 n° 110-94 (R2004)

Construction et essai des chauffe-eau électriques à accumulation

Des modifications ont été apportées aux articles 2.1, 4.10.1, 4.13.7.1 à 4.13.7.3, 5.8.1 et 5.8.2 et appendice A.

Cette norme est offerte en format PDF seulement.

CAN/CSA-C22.2 n° 112-97 (C2007)

Sécheuses électriques (norme binationale comprenant la deuxième édition de la norme UL 2158)

Des modifications ont été apportées à la page titre, à la préface, et l'article 4.6.1. Les articles 2.7A, 19.6 et 19.7 et figure 8 ont été ajoutés.



Reaffirmed Standards

C22.2 No. 33-M1984 (R2009)

Construction and Test of Electric Cranes and Hoists

C22.2 No. 40-M1989 (R2009)

Cutout, Junction, and Pull Boxes

C22.2 No. 53-1968 (R2009)

Electric Washing Machines

C22.2 No. 77-95 (R2009)

Motors with Inherent Overheating Protection

C22.2 No. 82-1969 (R2009)

Tubular Support Members and Associated Fittings for Domestic and Commercial Service Masts

C22.2 No. 109-M1981 (R2009)

Commercial Cooking Appliances

C22.2 No. 128-95 (R2009)

Vending Machines

C22.2 No. 129-05 (R2009)

Neutral Supported Cables

C22.2 No. 142-M1987 (R2009)

Process Control Equipment

CAN/CSA-C22.2 No. 150-M89 (R2009)

Microwave Ovens

C22.2 No. 193-M1983 (R2009)

High Voltage Full-Load Interrupter Switches

C22.2 No. 195-M1987 (R2009)

Motor Operated Food Processing Appliances

CAN/CSA-C88-M90 (R2009)

Power Transformers and Reactors



Withdrawn Standards

C22.2 No. 178-1978 (R2006)

Automatic Transfer Switches

CAN/CSA-E335-2-4-94 (R2005)

Safety of household and similar electrical appliances — Part 2: Particular requirements for spin extractors (Adopted CEI/IEC 335-2-4:1993, fourth edition, with Canadian deviations)

CAN/CSA-E60335-2-34-01 (R2006)

Safety of household and similar electrical appliances — Part 2-34: Particular requirements for motor compressors (Adopted CEI/IEC 60335-2-34:1999, third edition, with Canadian deviations)

CAN/CSA-E60335-2-45-01 (R2006)

Safety of household and similar electrical appliances — Part 2: Particular requirements for portable heating tools and similar appliances (Adopted CEI/IEC 335-2-45:1996, second edition, with Canadian deviations)

CAN/CSA-E60335-2-58-01 (R2006)

Safety of household and similar electrical appliances — Part 2: Particular requirements for commercial electric dishwashing machines (Adopted CEI/IEC 335-2-58:1995, second edition, with Canadian deviations)

CAN/CSA-E60335-2-62-01 (R2006)

Safety of household and similar electrical appliances — Part 2: Particular requirements for commercial electric rinsing sinks (Adopted CEI/IEC 335-2-62:1996, second edition, with Canadian deviations)

CAN/CSA-E335-2-66-95 (R2005)

Safety of household and similar electrical appliances — Part 2: Particular requirements for water-bed heaters (Adopted CEI/IEC 335-2-66:1993, first edition, with Canadian deviations)

CAN/CSA-E60335-2-71:06

Household and similar electrical appliances — Safety — Part 2-71: Particular requirements for electrical heating appliances for breeding and rearing animals (Adopted CEI/IEC 60335-2-71:2005, second edition, with Canadian deviations)



Certification and Testing (CSA International)

Certification Notices

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

Effective Date	Subject	Title
December 15, 2009	Publication of Update No. 2 to CSA standard C22.2 No. 227.2.1-04, <i>Liquid-Tight Flexible Nonmetallic Conduit</i> (bi-national standard with UL 1660).	Conduit No. 22
December 31, 2009	Publication of Update No. 4 to CSA standard C22.2 No. 42-99, <i>General Use Receptacles, Attachment Plugs and Similar Wiring Devices</i> . 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 requirements and new marking requirements of Update No. 4 to CSA standard C22.2 No. 42-99.	Ground Fault Circuit Interrupters No. 7
December 31, 2009	Publication of Update No. 4 to CSA standard C22.2 No. 42-99, <i>General Use Receptacles, Attachment Plugs and Similar Wiring Devices</i> .	Wiring Devices No. 56
December 31, 2009	Publication of Update No. 2 to CSA standard C22.2 No. 130-03, <i>Requirements for Electrical Resistance Heating Cables and Heating Device Sets</i> . (Supersedes Wiring Devices No. 37.)	Wiring Devices No. 37A
January 1, 2010	Publication of the second edition of CSA standard CAN/CSA-C681-06, <i>Performance of Self-Ballasted Compact Fluorescent lamps and Ballasted Adapters</i> .	Verification Service Announcement No. 35
January 5, 2010	Publication of CSA standard C22.2 No. 45.2-08, <i>Electrical Rigid Metal Conduit — Aluminum, Red Brass, and Stainless Steel</i> (bi-national standard with UL 6A, 2nd edition).	Conduit No. 23
March 10, 2010	Publication of Update No. 2 to CSA standard C22.2 No. 243-01, <i>Vacuum Cleaners, Blower Cleaners and Household Floor Finishing Machines</i> (bi-national standard with UL 1017).	Vacuum Cleaners and Blower Cleaners No. 9
March 31, 2010	Publication of Amendments to UL 1059, <i>Terminal Blocks</i> . (Supersedes Wiring Devices No. 40.)	Wiring Devices No. 40A

**Certification Notices (cont'd)**

Effective Date	Subject	Title
April 1, 2010	Publication of CSA standard C22.2 No. 250.7-07, <i>Extra-low-voltage Landscape Lighting Systems</i> . (Supersedes Lighting Products No. 34.)	Lighting Products No. 52
May 3, 2010	Publication of CSA standard C22.2 No. 96-09, <i>Portable Power Cables</i> .	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, <i>Primary Shielded and Concentric Neutral Cable for Distribution Utilities</i> .	Wire and Cable No. 142
May 31, 2010	Publication of CSA standard C68.10-08, <i>Shielded Power Cable for Commercial and Industrial Applications, 5-46 KV</i> .	Wire and Cable No. 139
May 31, 2010	Extension of effective date for CSA standard CAN/CSA-C22.2 No. 42.1-00, <i>Cover Plates for Flush-Mounted Wiring Devices</i> (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, <i>Nonmetallic Surface Raceways and Fittings</i> (bi-national standard with UL5A).	Raceways and Fittings No. 7
July 31, 2010	Publication CSA standard CAN/CSA-C22.2 No. 71.2-2008, <i>Electric Bench Tools</i> .	Electric Tools No. 22
September 17, 2010 (existing certifications)	Publication of CSA standard C22.2 No. 250.0-08, <i>Luminaires</i> (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 the CSA standard C22.2 No. 43-08, <i>Lampholders</i> (bi-national standard with UL 496).	Wiring Devices No. 58

Certification Notices (cont'd)

Effective Date	Subject	Title
February 28, 2011	Publication of CSA standard C22.2 No. 52-09, <i>Underground Secondary and Service-Entrance Cables.</i>	Wire and Cable No. 143
January 1, 2012	Publication of CSA standard CAN/CSA- E61131-2:06, <i>Programmable controllers — Part 2: Equipment requirements and tests</i> (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, <i>Low Voltage Transformers.</i>	Transformers No. 6
August 21, 2016	Publication of CSA standard CAN/CSA-C22.2 No. 60335-2-24-06, <i>Safety Requirements for Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice Cream Appliances and Ice Makers</i> (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

N294-09, 1st edition

Decommissioning of Facilities Containing Nuclear Substances

Paper.....	\$220
PDF	\$200

This standard applies to the decommissioning of licensed facilities and other locations where nuclear substances are managed, possessed, or stored.

This standard does not apply to the decommissioning of facilities or equipment involving only the following:

- naturally occurring radioactive material (NORM)
- technologically enhanced, naturally occurring radioactive material (TENORM)
- radiation-emitting devices, including those consumer and medical devices regulated under the Radiation Emitting Devices Act and similar industrial radiation-emitting devices regulated by the provinces.

Z245.11-09, 6th edition

Steel Fittings

Paper.....	\$150
PDF	\$135

This standard covers wrought steel butt welding fittings, including extruded headers and factory-produced bends, primarily intended for use in oil or gas pipeline systems.

This standard covers fittings in sizes from NPS 1/2 to NPS 60.

For other than sour service, this standard covers fittings from Grade 207 to Grade 690. For sour service, this standard covers fittings from Grade 207 to Grade 483.

This standard covers fittings in the following categories:

- Category I: fittings without requirements for proven notch-toughness properties
- Category II: fittings with requirements for proven notch-toughness properties.

This standard does not cover assemblies.



New Standards – New Editions – Special Publications (cont’d)

Z245.12-09, 6th edition

Steel Flanges

Paper.....	\$150
PDF	\$135

This standard covers wrought steel welding neck and blind flanges primarily intended for use in oil or gas pipeline systems.

This standard covers flanges in sizes from NPS 1/2 to NPS 60.

For other than sour service, this standard covers flanges from Grade 248 to Grade 690. For sour service, this standard covers flanges from Grade 248 to Grade 483.

This standard covers flanges having cold working-pressure ratings designated by nominal pressure classes from PN 20 to PN 420.

This standard covers flanges in the following categories:

- Category I: flanges without requirements for proven notch-toughness properties
- Category II: flanges with requirements for proven notch-toughness properties.

This standard does not cover assemblies.

Z245.15-09, 7th edition

Steel Valves

Paper.....	\$175
PDF	\$160

This standard covers steel valves primarily intended for use in oil or gas pipeline systems. The following types of valves are covered:

- gate valves
- plug valves
- ball valves
- check valves.

This standard covers valves in sizes from NPS 2 to NPS 60.

This standard covers valves having cold working-pressure ratings designated by nominal pressure classes from PN 20 to PN 420.

This standard covers valves in the following categories:

- Category I: valves without requirements for proven notch-toughness properties
- Category II: valves with requirements for proven notch-toughness properties.

This standard covers standard end requirements for flanged, buttwelding, and wafer-type valves. Other end configurations are considered non-standard and are subject to agreement between the purchaser and the manufacturer.

New Standards – New Editions – Special Publications (cont’d)

Z246.1-09, 1st edition

Security Management for Petroleum and Natural Gas Industry Systems

Paper.....	TBA
PDF	\$250

This standard specifies criteria for establishing a security management program for petroleum and natural gas industry systems to ensure security threats and associated risks are identified and managed. This standard provides mitigation and response processes and procedures to prevent and minimize the impact of security incidents that could adversely affect people, the environment, assets, and economic stability.

This standard does not apply to offshore petroleum and natural gas platforms.

Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français

C804-09, 2^e édition

Performances énergétiques des distributeurs automatiques

PDF seulement	100 \$
---------------------	--------

Cette norme énonce les exigences en matière de performances énergétiques applicables aux distributeurs automatiques autonomes qui refroidissent et (ou) chauffent les produits à vendre.

Cette norme énonce des méthodes uniformisées de mesure de la consommation d’énergie et des niveaux de consommation d’énergie quotidienne maximale.

Amendments

N293-07

Fire Protection for CANDU Nuclear Power Plants

Revision of Clauses 5.7.5.2.1 and 11.1.2.2.

Reaffirmed Standards

CAN/CSA-B140.4-04 (R2009)

Oil-Fired Warm Air Furnaces



Reaffirmed Standards

CAN/CSA-ISO 14031-00 (R2009)

Environmental management — Environmental performance evaluation — Guidelines
(Adopted ISO 14031:1999, first edition, without modification)

CAN/CSA-ISO 14032-00 (R2009)

Environmental management — Examples of environmental performance evaluation (EPE)
(Adopted ISO 14032:1999, first edition, without modification)



Completed Projects / Projets terminés

New Standards – New Editions – Special Publications

ANSI Z21.15-2009/CSA 9.1-2009, 2nd edition

Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves

PDF only \$350

This standard details test and examination criteria for manually-operated gas valves, not exceeding 4 inches (102 mm) pipe size, and pilot shut-off devices, except for hose end valves and appliance connector valves, intended to be used as part of a gas-fired appliance.

ANSI Z83.19-2009/CSA 2.35-2009, 2nd edition

Gas-Fired High-Intensity Infrared Heaters

PDF only \$450

This standard details test and examination criteria for gas-fired high-intensity infrared heaters for use with natural, manufactured, mixed and liquefied petroleum (propane) gases and may be convertible for use with natural and LP-gases. This standard applies to heaters for installation in and heating of outdoor spaces or nonresidential indoor spaces where flammable gases or vapors are not generally present.

Amendments

ANSI Z83.8a-2009/CSA 6.2a-2009

Gas Unit Heaters and Gas-Fired Duct Furnaces

PDF only \$115

This document provides revisions to ANSI Z83.8-2006/CSA 6.2-2006.

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, 2009	Publication of addenda ANSI Z21.89a-2008/CSA 1.18a-2008, <i>Outdoor Cooking Specialty Gas Appliances</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.89-2007/CSA 1.18-2007.	Gas Products No. 183

**Certification Notices (cont'd)**

Effective Date	Subject	Title
December 1, 2009	Publication of CSA standard CAN/CSA-C22.2 No. 62282-2:07, <i>Fuel cell technologies — Part 2: Fuel cell modules</i> (adopted CEI/IEC 62282-2:2004, first edition, with Canadian deviations).	Gas Products No. 178
December 1, 2009	Publication of addenda ANSI Z21.58a/ CSA 1.6a-2008, <i>Outdoor Cooking Gas Appliances</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.58-2007/ CSA 1.6-2007.	Gas Products No. 177
December 1, 2009	Publication of addenda ANSI Z83.18b-2008, <i>Re-circulating Direct Gas-Fired Industrial Air Heaters</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z83.18-2004 and Z83.18a-2005.	Gas Products No. 167
August 1, 2010	Publication of standard ANSI LC7-2009, <i>Pipe Joint Sealing Compounds and Materials</i> .	Gas Products No. 186
August 1, 2010	Publication of addenda ANSI Z21.50b-2009/ CSA 2.22b-2009, <i>Vented Gas Fireplaces</i> . 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, <i>Gas Food Service Equipment</i> . 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
August 1, 2010	Publication of CSA standard P.4.1-09, <i>Testing Method for Measuring Annual Fireplace Efficiency</i> .	Gas Products No. 193
August 1, 2010	Publication of standard ANSI Z21.88/ CSA 2.33-2009, <i>Vented Gas Fireplace Heaters</i> .	Gas Products No. 194



Completed Projects / Projets terminés

New Standards – New Editions – Special Publications

Z7396.1-09, 2nd edition

Medical gas pipeline systems — Part 1: Pipelines for medical gases and vacuum

Paper.....	\$250
PDF	\$225

This standard specifies safety requirements for medical gas pipeline systems in health care facilities. It is intended for use by anyone involved in the design, construction, inspection, and operation of medical gas systems.

The provisions of this standard are intended to:

- (a) ensure that each medical gas pipeline provides the correct gas or vacuum to the corresponding terminal unit
- (b) specify the use of gas-specific components for terminal units and for other connectors that are normally accessible to the user
- (c) ensure a continuous supply of each medical gas or medical vacuum
- (d) specify multiple sources complete with redundant components sufficient to ensure an uninterrupted supply in normal condition or in single-fault condition
- (e) provide general guidance for source and pipeline sizing
- (f) ensure that medical gases are not contaminated by the pipeline
- (g) specify materials of construction of sources and pipelines, installation methods, allowable minor components, and testing required to ensure the pipeline system does not contaminate medical gases
- (h) confirm, through testing, that each medical gas pipeline contains only the specified gas prior to its use in patient care.

Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français

B51-09, 17^e édition

Code sur les chaudières, les appareils et les tuyauteries sous pression

Papier.....	165 \$
PDF	165 \$

Cette norme comporte trois parties

- La première partie de cette norme s'applique aux chaudières, aux appareils sous pression, aux tuyauteries sous pression et aux accessoires régis par la loi et indiqués dans la première partie de cette norme.



Nouvelles normes – Nouvelles éditions – Publications spéciales (cont'd)

B51-09 (suite)

Cette norme ne vise pas :

- a) les composants sous pression utilisés dans les ascenseurs et monte-charge hydrauliques ;
- b) les dispositifs de confinement de la pression destinés à l'appareillage de commutation et à l'équipement de commande ; et
- c) les appareils sous pression destinés au transport des marchandises dangereuses régies par Transports Canada.

Les exigences relatives aux bouteilles et aux tuyauteries et aux récipients sous pression des postes d'approvisionnement en gaz naturel comprimé font l'objet des deuxième et troisième parties de cette norme.

- La deuxième partie de cette norme prescrit les exigences minimales concernant les bouteilles de gaz légères, rechargeables et produites en série, installées comme équipement d'origine ou après conversion, dont la capacité en eau est supérieure à 20 L (0,71 pi³) mais d'au plus 1000 L (35,3 pi³). La deuxième partie de cette norme vise uniquement les bouteilles destinées au stockage du gaz naturel comprimé sous haute pression et (ou) de l'hydrogène comprimé, utilisés comme carburants à bord des véhicules automobiles auxquels elles seront fixées. Les bouteilles peuvent être construites de n'importe quel matériau (acier, aluminium ou matériau non métallique) ou selon n'importe quelle conception ou n'importe quel mode de fabrication adapté aux conditions d'utilisation prescrites.
- Les tuyauteries sous pression visées par la troisième partie de cette norme sont les sections de tuyaux utilisées dans les postes d'approvisionnement en gaz naturel comprimé (GNC) et en hydrogène
 - a) entre la fin de la tuyauterie de l'entreprise desservie, généralement au compteur, et l'entrée du compresseur du poste d'approvisionnement en gaz naturel comprimé (GNC), si la pression de calcul est supérieure à 414 kPa (60 lb/po²) ; et
 - b) entre l'entrée du compresseur et la buse du distributeur, à l'exception des pièces mécaniques du compresseur et des sous-systèmes conçus pour une pression de calcul d'au plus 414 kPa (60 lb/po²).
- Les récipients de stockage souterrain visés par la troisième partie de cette norme sont des appareils sous pression installés dans les postes d'approvisionnement en GNC et en hydrogène ; ils servent à stocker du GNC ou de l'hydrogène destiné aux réservoirs à carburant des véhicules.

Nouvelles normes – Nouvelles éditions – Publications spéciales (cont'd)**Z96-07, 2^e édition***Vêtements de sécurité à haute visibilité*

Papier.....	70 \$
PDF	60 \$

Cette norme précise les exigences relatives aux vêtements de travail a) permettant de signaler visuellement la présence de l'utilisateur ; et b) conçus pour augmenter la visibilité de l'utilisateur dans des situations dangereuses, dans toutes conditions de luminosité et sous l'éclairage des phares des véhicules.

Cette norme énonce des exigences de rendement relatives à la couleur, à la rétro réflexion et aux surfaces minimales, ainsi qu'à la configuration des matériaux. Elle énonce aussi des exigences de rendement visant les propriétés physiques des matériaux de base utilisés dans la confection des vêtements de sécurité à haute visibilité appelés VSHV dans cette norme. La norme décrit, de plus, les méthodes d'essai permettant de s'assurer qu'un niveau minimal de visibilité est maintenu lorsque les vêtements font l'objet d'un entretien régulier.

Cette norme énonce les exigences de rendement s'appliquant aux matériaux de visibilité à utiliser sur les VSHV et définit les classes de vêtements, les surfaces minimales et le positionnement de ces matériaux.

Cette norme spécifie les quantités minimales de matériaux rétro réfléchissants, ainsi que la couleur et les exigences relatives au positionnement des matériaux, pour les vêtements servant à améliorer la visibilité et la sécurité des travailleurs.

Des classes de vêtements à haute visibilité ont été définies et des marquages appropriés sont recommandés pour chaque classe.

Z98-07, 6^e édition*Remontées mécaniques et convoyeurs*

Papier.....	150 \$
PDF	135 \$

Cette norme établit les exigences relatives à la conception, à la fabrication, à la construction, à la modification, au fonctionnement, à la vérification, à la mise à l'essai et à l'entretien des remontées mécaniques et des convoyeurs.

Les exigences relatives aux conditions inhabituelles ou anormales ne sont pas spécifiquement énoncées, pas plus que tous les détails d'ingénierie et de construction. Il est entendu que tout travail exécuté dans le cadre du domaine d'application de cette norme est au minimum conforme aux règles de sécurité qui y sont formulées ou suggérées.

Cette norme ne traite pas tous les aspects de la sécurité concernant les remontées mécaniques et les convoyeurs. Il incombe à son utilisateur d'établir des pratiques de sécurité adéquates et de déterminer l'applicabilité de toute limitation ou exigence réglementaire.



Amendments

Z317.1-09

Special Requirements for Plumbing Installations in Health Care Facilities

Revision of Clause 3.

Z317.10-09

Handling of Waste Materials in Health Care Facilities and Veterinary Health Care Facilities

Revision of Clause 3.

Modifications publiées en français

B52S1-09

Supplément n° 1 à la B52-05, « Code sur la réfrigération mécanique »

Papier.....50 \$

PDF.....50 \$

Des modifications ont été apportées à la table des matières, aux articles 1.1, 3.1, 4.3.1.2.2, 5.5.1, 5.6.2, 5.6.3, 5.9.2.1, 5.9.3.1, 7.2.2.1, 7.2.3, 7.2.4 et 8.4.1g), au chapitre 2, ainsi qu'aux tableaux 1 et 4 et à l'index. Le Comité technique (liste des membres au moment de l'approbation du supplément CSA B52S1-09), le Sous-comité sur le dioxyde de carbone, aux les articles 4.3.1.2.3, 5.6.2.2, 5.6.3.2, 7.2.2.4, 7.2.3.2 et 8.1A et les annexes J and K ont été ajoutés.

Z259.16-04 (C2009)

Conception de systèmes actifs de protection contre les chutes

Des modifications ont été apportées aux articles 3, 7.2.2 et 7.2.3.

Reaffirmed Standards

B52-05 (R2009)

Mechanical Refrigeration Code

CAN/CSA-M682-04 (R2009)

Agricultural Front-End Loaders — Safety Requirements

Withdrawn Standards

CAN/CSA-ISO 5841-2:01 (R2006)

Implants for surgery — Cardiac pacemakers — Part 2: Reporting of clinical performance of populations of pulse generators or leads (Adopted ISO 5841-2:2000, second edition, without modification)

Withdrawn Standards (cont'd)

CAN/CSA-ISO 5841-3:01 (R2006)

Implants for surgery — Cardiac pacemakers — Part 3: Low-profile connectors [IS-1] for implantable pacemakers (Adopted ISO 5841-3:2000, second edition, without modification)

CAN/CSA-ISO 10993.2-97 (R2006)

Biological evaluation of medical devices — Part 2: Animal welfare requirements (Adopted ISO 10993-2:1992, first edition, without modification)

CAN/CSA-ISO 10993.3-97 (R2006)

Biological evaluation of medical devices — Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity (Adopted ISO 10993-3:1992, first edition, without modification)

CAN/CSA-ISO 10993.4-97 (R2006)

Biological evaluation of medical devices — Part 4: Selection of Tests for Interactions with Blood (Adopted ISO 10993-4:1992, first edition, without modification)

CAN/CSA-ISO 10993.6-97 (R2006)

Biological evaluation of medical devices — Part 6: Tests for Local Effects After Implantation (Adopted ISO 10993-6:1994, first edition, without modification)

CAN/CSA-ISO 10993.7-98 (R2007)

Biological evaluation of medical devices — Part 7: Ethylene oxide sterilization residuals (Adopted ISO 10993-7:1995, first edition, without modification)

Z204-94 (R1999)

Guideline for Managing Indoor Air Quality in Office Buildings

CAN/CSA-Z615-87 (R2006)

Code for Hot Forging Producers, Health and Safety Requirements

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, <i>Face Protectors and Visors for Ice Hockey Players</i> and for CSA standard CAN/CSA Z262.1-M90, <i>Ice Hockey Helmets</i> .	Sports and Recreational Equipment No. 13



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



Contact Information

To order CSA Standards and Information Products
call 1-800-463-6727, or visit our
Online Store at www.csa.ca.
Remember you can shop online anytime –
24 hours a day, 7 days a week.

Head Office

5060 Spectrum Way, Suite 100
Mississauga, Ontario
L4W 5N6
CANADA

Telephone: 416-747-4000
1-800-463-6727
Fax: 416-747-2475
email: info@csagroup.org

Edmonton – Sales

1707 94th Street NW
Edmonton, Alberta
T6N 1E6
CANADA

Tel: (780) 490-2007
1-800-463-6727
Fax: (780) 435-0998

Vancouver – Sales

13799 Commerce Parkway
Richmond, British Columbia
V6V 2N9
CANADA

Tel: (604) 244-6652
1-800-463-6727
Fax: (604) 244-6508

Membership

Telephone: 416-747-4044
1-800-463-6727
Fax: 416-747-2510
email: members@csa.ca

Mississauga – Sales

5060 Spectrum Way, Suite 100
Mississauga, Ontario
L4W 5N6
CANADA

Telephone: 416-747-4044
1-800-463-6727
Fax: 416-747-2510
email: sales@csa.ca

Montreal – Sales

865, rue Ellingham
Pointe-Claire, Quebec
H9R 5E8
CANADA

Tel: (514) 428-2418
1-800-463-6727
Fax: (514) 694-5001

Cleveland – Sales

8501 East Pleasant Valley Road
Cleveland, Ohio
44131-5575
USA

Tel: (216) 328-8103
1-800-463-6727
Fax: (216) 642-3463

Seminars & Training

Tel: (416) 747-4017
1-800-463-6727
Fax: (416) 747-4287
email: seminars@csa.ca