



**CANADIAN STANDARDS  
ASSOCIATION**

**INFO UPDATE**

**Volume 8 December 2005**

**Issue date: December 23, 2005**

**December 23, 2005**

## 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](http://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, and standards under development. 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/KeepMeInformed.asp>.

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 [www.csa.ca](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 [www.csa.ca](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 [www.csa.ca](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 [www.csa.ca](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](mailto:gic@ihscanada.ca); Web site <http://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**

### ▼ Notice of Intent

CSA intends to begin work on the projects listed in this section. These projects include the development of new standards and editions (including adoptions), and endorsements. If you have relevant expertise and would like to contribute time, comments, or are able to support the development financially, please contact the person listed for that item.

### ▼ Drafts for Public Review

Drafts of new standards, new editions, and amendments (including adoptions), and endorsements are available for public review before the technical committee approves the technical content. The comment period is normally 60 days from the date of each issue of *Info Update*. Please return your comments as quickly as possible, so that we can pass them on to the appropriate committee for review. To request copies or offer comments, contact the person noted for that draft. If you would like to comment on a standard that is being proposed for endorsement or adoption, you can obtain a copy from the originating organization for a fee.

**Please note:** For an additional listing of drafts available for Public Review, visit the online Public Review section at [www.csa.ca](http://www.csa.ca).

After the expiry date for public comments, you can buy most public review drafts, up until the approval stage. Please call Standards Sales at 416-747-4044 or 1-800-463-6727 for pricing, or email your request to [sales@csa.ca](mailto:sales@csa.ca). *Please note:* Drafts are works in progress and have no official status. They are not a substitute for the final, approved standards and amendments. Drafts must not be used as an authoritative source.

### ▼ Proposed Reaffirmation of Standards

Standards listed in this section are being reviewed to determine if they remain technically valid and current. If you have any comments, send them to the contact person noted within 30 days of the date of this issue of *Info Update*. Your comments will be passed on to the appropriate committee for consideration.

### ▼ Proposed Withdrawal of Standards

These documents are being considered for withdrawal. If you have any questions or concerns about this, contact the person noted within 30 days of the date of this issue of *Info Update*.

▼ **Status of Standards Projects**

The project status report was formerly published quarterly in *Info Update*. Beginning with the February 2003 issue of *Info Update* this information will be available on our web site, independent of Info Update. To view or download visit <http://www.csa.ca/standards/default.asp?load=report&language=English>. This report lists projects that CSA committees are currently working on. Standards listed in this report are not yet available for sale.

## ***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 416-747-4171, or fax 416-747-2476.



### Construction Products and Materials

[B242-05, 3rd edition](#)

*Groove- and Shoulder-Type Mechanical Pipe Couplings*



### Produits et matériaux de construction

[A23.1-04/A23.2-04, 10<sup>e</sup> édition](#)

*Béton : Constituants et exécution des travaux/Méthodes d'essai et pratiques normalisées pour le béton*

[B66-05, 6<sup>e</sup> édition](#)

*Exigences visant la conception, les matériaux constitutifs et la fabrication des fosses septiques et réservoirs de rétention préfabriqués*

[B79-05, 3<sup>e</sup> édition](#)

*Avaloirs de sol, avaloirs pluviaux, avaloirs de douche et orifices de nettoyage dans la construction résidentielle*

[B602-05, 4<sup>e</sup> édition](#)

*Joints mécaniques pour tuyaux d'évacuation, de ventilation et d'égout*



### Electrical / Electronics

[C22.2 No. 2556-05, 1st edition](#)

*Wire and Cable Test Methods* (tri-national standard with NMX-J-556-ANCE-2006, first edition and UL 2556, first edition)

[CAN/CSA-C22.2 No. 60745-2-19-05, 1st edition](#)

*Hand-held motor-operated electric tools — Safety — Part 2-19: Particular requirements for jointers* (bi-national standard with UL 60745-2-19, first edition. Adopted IEC 60745-2-19:2005, first edition, without modification)

[C282-05, 4th edition](#)

*Emergency Electrical Power Supply for Buildings*

[C282 Logbook-05, 2nd edition](#)

*Emergency Electrical Power Supply for Buildings Maintenance Logbook*



### Électricité et électronique

[CAN/CSA-C22.2 n° 60745-2-19-05, 1<sup>e</sup> édition](#)

*Outils électroportatifs à moteur — Sécurité — Partie 2-19 : Règles particulières pour les mortaiseuses* (norme binationale avec UL 60745-2-19, première édition. Norme CEI 60745-2-19:2005, première édition, adoptée sans modifications)

[C282-05, 4<sup>e</sup> édition](#)

*Alimentation électrique de secours des bâtiments*



## Energy

[Z245.11-05, 5th edition](#)

*Steel Fittings*

[Z245.12-05, 5th edition](#)

*Steel Flanges*



## Énergie

[B140.7-05, 2<sup>e</sup> édition](#)

*Appareils de combustion au mazout : chaudières à vapeur et à eau chaude*

[C656-05, 2<sup>e</sup> édition](#)

*Évaluation des performances des climatiseurs centraux et des thermopompes biblocs et monoblocs*

[N286.7-99, 2<sup>e</sup> édition \(C2003\)](#)

*Assurance de la qualité des programmes informatiques scientifiques, d'analyse et de conception des centrales nucléaires*



## Environnement

[Z772-05, 1<sup>re</sup> édition](#)

*Systèmes de gestion environnementale pour les exploitations porcines : Guide d'application*



## Gas Equipment

[ANSI Z21.57-2005, 9th edition](#)

*Recreational Vehicle Cooking Gas Appliances*



## Life Sciences

[CAN/CSA-C22.2 No. 60601-1-6:05, 1st edition \(bilingual\)](#)

*Medical electrical equipment — Part 1-6: General requirements for safety — Collateral Standard: Usability (Adopted CEI/IEC 60601-1-6:2004, first edition, without modification)*

[CAN/CSA-C22.2 No. 60601-1-8:05, 1st edition \(bilingual\)](#)

*Medical electrical equipment — Part 1-8: General requirements for safety — Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems (Adopted CEI/IEC 60601-1-8:2005, first edition, without modification)*





## Sciences de la Vie

### [B52HB-05, 1<sup>re</sup> édition](#)

*Guide pratique pour l'utilisation de la CSA B52, Code sur la réfrigération mécanique*

### [CAN/CSA-C22.2 n° 60601-1-6:05, 1<sup>re</sup> édition \(bilingue\)](#)

*Appareils électromédicaux — Partie 1-6 : Règles générales de sécurité — Norme collatérale : Aptitude à l'utilisation* (norme CEI/IEC 60601-1-6:2004, première édition, adoptée sans modifications)

### [CAN/CSA-C22.2 n° 60601-1-8:05, 1<sup>re</sup> édition \(bilingue\)](#)

*Appareils électromédicaux — Partie 1-8 : Règles générales de sécurité — Norme collatérale : Règles générales, essais et recommandations pour les systèmes d'alarme des appareils et des systèmes d'alarme des appareils et des systèmes électromédicaux* (norme CEI/IEC 60601-1-8:2005, première édition, adoptée sans modifications)

### [Z94.1-05, 5<sup>e</sup> édition](#)

*Casques de sécurité pour l'industrie : tenue en service, sélection, entretien et utilisation*

### [Z275.2-04, 4<sup>e</sup> édition](#)

*Règles de sécurité pour les travailleurs en plongée*



## Quality / Business Management

### [CAN/CSA-ISO 9000:05, 2<sup>nd</sup> edition](#)

*Quality management systems — Fundamentals and vocabulary*  
(Adopted ISO 9000:2005, third edition, without modification)

### [CAN/CSA-ISO 10005:05, 2<sup>nd</sup> edition](#)

*Quality management systems — Guidelines for quality plans*  
(Adopted ISO 10005:2005, second edition, without modification)



## Qualité / Gestion et production

### [CAN/CSA-ISO 9000:05, 2<sup>e</sup> édition](#)

*Systèmes de management de la qualité — Principes essentiels et vocabulaire*  
(norme ISO 9000:2005, troisième édition, adoptée sans modifications)

### [CAN/CSA-ISO 10005:05, 2<sup>e</sup> édition](#)

*Systèmes de management de la qualité — Lignes directrices pour les plans qualité*  
(norme ISO 10005:2005, deuxième édition, adoptée sans modifications)



## ***Completed Projects / Projets terminés***

---

### **Reaffirmed Standards**

---

#### **CAN/CSA-ISO/IEC TR 13335-3-01 (R2005)**

*Information technology — Guidelines for the management of IT security — Part 3: Techniques for the management of IT security* (Adopted ISO/IEC TR 13335-3:1998, 1st edition, without modification)

#### **CAN/CSA-ISO/IEC TR 13335-4-01 (R2005)**

*Information technology — Guidelines for the management of IT security — Part 4: Selection of safeguards* (Adopted ISO/IEC TR 13335-4:2000, 1st edition, without modification)



## ***Completed Projects / Projets terminés***

---

### **New Standards – New Editions – Special Publications**

---

#### **B242-05, 3rd edition**

*Groove- and Shoulder-Type Mechanical Pipe Couplings* ..... \$120

This standard covers groove-type mechanical pipe couplings for liquid and gas pressure pipes up to and including NPS-42 and shoulder-type mechanical pipe couplings for liquid and gas pressure pipes up to and including NPS-60.

This standard includes minimum requirements for materials, chemical properties, physical properties, pipe groove and shoulder dimensions, finishes, and pipe coupling markings.

---

### **Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français**

---

#### **A23.1-04/A23.2-04, 10<sup>e</sup> édition**

*Béton : Constituants et exécution des travaux/Méthodes d'essai et pratiques normalisées pour le béton*..... 145 \$

La **A23.1** décrit les exigences relatives aux constituants et à l'exécution des travaux concernant le béton coulé sur place et le béton préfabriqué sur place.

La **A23.2** traite des principales méthodes d'essai applicables au béton durci et au béton frais, ainsi qu'aux constituants, spécifiées dans la CSA A23.1 et la CSA A23.4.

#### **B66-05, 6<sup>e</sup> édition**

*Exigences visant la conception, les matériaux constitutifs et la fabrication des fosses septiques et réservoirs de rétention préfabriqués* ..... 100 \$

Cette norme établit les exigences minimales en matière de conception et des matériaux, de méthodes de fabrication et de marquage des fosses septiques et des réservoirs de rétention préfabriqués, ainsi que des compartiments d'effluent faits en acier, en béton, en plastique renforcé de fibres de verre ou en polyéthylène, destinés à recevoir les eaux usées ou leur effluent.



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

### **B79-05, 3<sup>e</sup> édition**

*Avaloirs de sol, avaloirs pluviaux, avaloirs de douche et orifices de nettoyage dans la construction résidentielle* ..... 80 \$

Cette norme spécifie les exigences applicables aux avaloirs de sol, avaloirs pluviaux, avaloirs de douche et orifices de nettoyage dans la construction résidentielle. Les sujets couverts par la présente norme incluent les suivants :

- matériaux
- exigences de conception (pour les raccords, attaches, grillages, bouchons d'orifices de nettoyage, clapets anti-retour et siphons intégrés)
- essais (essai de charge, essai d'étanchéité des clapets anti-retour, essai d'étanchéité et essai de résistance à la corrosion)
- marquages.

### **B602-05, 4<sup>e</sup> édition**

*Joints mécaniques pour tuyaux d'évacuation, de ventilation et d'égout*..... 120 \$

Cette norme s'applique aux joints mécaniques d'assemblage axial pour tuyaux et composants de tuyauterie sans pression d'évacuation, de ventilation et d'égout, qui sont situés à l'intérieur ou à l'extérieur des édifices, hors sol ou enfouis.

---

## Amendments

---

### **CAN/CSA-A370-04**

*Connectors for Masonry*

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

### **CAN/CSA-B45 Series-02**

*Plumbing Fixtures*

- **CAN/CSA-B45 Series-02:** Revision of the contents.
- **CAN/CSA-B45.0-02:** Revision of Clauses 2, 9.8.4, and 11.1–11.6. Addition of Clauses 11.7 and 15.8.10–15.8.12.

---

## Modifications publiées en français

---

### **CAN/CSA-A370-04**

*Connecteurs pour la maçonnerie*

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.



## Modifications publiées en français (suite)

### CAN/CSA-Série B45-02

#### *Appareils sanitaires*

- **CAN/CSA-Série B45-02:** Modification de la table des matières.
- **CAN/CSA-B45.0-02:** Modification des articles 2, 9.8.4, 25 11.1–11.6.  
Les articles 11.7 et 15.8.10–15.8.12 ont été ajoutés.

### O80S2-05

*Supplément n° 2 à la O80 Série-97, « Préservation du bois »* ..... 70 \$

Des modifications ont été apportées aux articles et tableaux suivants :

- **O80 Série-97 :** Modification de la table des matières et de la préface.
- **O80.0-97 :** Modification des articles 3.1 et 8.1 et Exigences supplémentaires à la norme AWWA P5-95.
- **O80.1-97 :** Modification des articles 4.1.4, 4.2.2, et 5.1, ainsi que des tableaux 1 et 2.
- **O80.2-97 :** Modification du tableau 1.
- **O80.3-97 :** Modification d l'article 3.1 et des tableaux 1 et 2.
- **O80.4-97 :** Modification des tableaux 2 et 3.
- **O80.5-97 :** Modification du tableau 1.
- **O80.9-97 :** Modification de l'article 4.1.2 et du tableau 1.
- **O80.14-97 :** Modification du tableau 1.
- **O80.15-97 :** Modification de l'article 3.1 et du tableau 1.
- **O80.18-97 :** Modification des tableaux 1 et 2.
- **O80.25-97 :** Modification de l'article 2.5 et du tableau 1.
- **O80.32-97 :** Modification des articles 1 et 2, ainsi que de tableau 1. L'article 3 a été ajouté.

Les normes suivantes ont été ajoutées à la série :

- **O80.36-05, 1<sup>re</sup> édition**  
*Traitement de préservation sous pression des produits de bois pour service léger hors sol dans des utilisations d'habitation*
- **O80.207-05, 1<sup>re</sup> édition**  
*Traitement de préservation à l'arséniate et chromate de cuivre-diméthacrylate de polyéthylène glycol (ACC-PA)*

---

## Reaffirmed Standards

---

### CAN/CSA-A440-00 / A440.1-00 (R2005)

*Windows / User Selection Guide to CAN/CSA A440-00*

### A453-95 (R2005)

*Energy Performance Evaluation of Swinging Doors*



## ***Under Development***

---

### **Notice of Intent**

---

For more information about the proposed development of the following new project, contact Dwayne Torrey at 416-747-2746 or [dwayne.torrey@csa.ca](mailto:dwayne.torrey@csa.ca):

- **O112.10, 1st edition**

*Evaluation of Adhesives for Structural Wood Products (limited moisture exposure)*

For more information about the proposed development of the following new projects, contact Mark Braiter at 416-747-2745 or [mark.braiter@csa.ca](mailto:mark.braiter@csa.ca):

- **S6.1, 3rd edition**

*Commentary on CAN/CSA-S6, “Canadian Highway Bridge Design Code”*

- **S307, 3rd edition**

*Load Test Procedure for Roof Trusses for Houses and Small Buildings*

---

### **Proposed Withdrawal of Standards**

---

For more information about the proposed withdrawal of the following standard, contact Andrew Anderson at 416-747-5583 or [andrew.anderson@csa.ca](mailto:andrew.anderson@csa.ca):

- **G4-00**

*Steel Wire Rope For General Purpose and For Mine Hoisting and Mine Haulage*

For more information about the proposed withdrawal of the following standards, contact Dwayne Torrey at 416-747-2746 or [dwayne.torrey@csa.ca](mailto:dwayne.torrey@csa.ca):

- **CAN/CSA-A324-M88 (2001)**

*Clay Flue Liners*

- **O452 Series-94 (R2001)**

*Design Rated OSB*

(Consists of O452.0-94, O452.1-94, O452.2-94 and O452.3-94)

---

### **Proposed Reaffirmation of Standards**

---

For more information about the proposed reaffirmation of the following series of standards, contact Mark Braiter at 416-747-2745 or [mark.braiter@csa.ca](mailto:mark.braiter@csa.ca):

- **CAN/CSA-S826 Series-01**

*Ferry Boarding Facilities*

(Series consists of CAN/CSA-S826.1, CAN/CSA-S826.2, CAN/CSA-S826.3 and CAN/CSA-S826.4)



## ***Certification and Testing (CSA International)***

---

### **Informs Notices**

<b>Date</b>	<b>Subject</b>	<b>Title</b>
November 30, 2005	Publication of Technical Information Letter No. MSE-48, providing interim certification requirements for concrete plumbing fixtures.	Plumbing Products No. 164

---

### **Certification Notices**

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

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
September 1, 2006	Publication of CAN/CSA standard B182.8-02, <i>Profile Polyethylene Storm Sewer and Drainage Pipe and Fittings</i> .	Plumbing Products No. 158
► October 1, 2006	Publication of CSA standard B66-05, <i>Design Material, and Manufacturing Requirements for Prefabricated Septic Tanks and Sewage Holding Tanks</i> . All previously certified concrete tanks are required to be re-certified to the new requirements.	Plumbing Products No. 163
► April 1, 2007	Publication of CSA standard A440.2-04/A440.3-04, <i>Energy Performance of Windows and other Fenestration Systems / User Guide to CSA A440.2-04</i> .	Building Products and Materials No. 13



## Completed Projects / Projets terminés

### New Standards – New Editions – Special Publications

#### C22.2 No. 2556-05, 1st edition

*Wire and Cable Test Methods* (tri-national standard with NMX-J-556-ANCE-2006, first edition, and UL 2556, first edition) ..... \$195

This standard describes the apparatus, test methods, and formulas to be used in carrying out the tests and calculations required by wire and cable standards.

#### CAN/CSA-C22.2 No. 60745-2-19-05, 1st edition

*Hand-held motor-operated electric tools — Safety — Part 2-19: Particular requirements for jointers* (bi-national standard with UL 60745-2-19, first edition. Adopted IEC 60745-2-19:2005, first edition, without modification) ..... \$55

This standard applies to jointers for cutting into wood or similar material.

This document is available in portable document format (PDF) only.

#### C282-05, 4th edition

*Emergency Electrical Power Supply for Buildings* ..... \$105

This standard applies to the design, installation, operation, maintenance, and testing of emergency generators and associated equipment for providing an emergency power supply to electrical loads in buildings and facilities when the normal power supply fails and an emergency power supply is required by the *National Building Code of Canada* (NBC).

#### C282 Logbook-05, 2nd edition

*Emergency Electrical Power Supply for Buildings Maintenance Logbook* ..... \$60

This maintenance logbook consists of tables for weekly, monthly, semi-annual, and annual inspections, as well as tables for inspections scheduled every five years and for unscheduled maintenance.

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

#### CAN/CSA-C22.2 n° 60745-2-19-05, 1<sup>re</sup> édition

*Outils électroportatifs à moteur — Sécurité — Partie 2-19 : Règles particulières pour les mortaiseuses* (norme binationale avec UL 60745-2-19, première édition. Norme CEI 60745-2-19:2005, première édition, adoptée sans modifications) ..... 55 \$

Cette norme s'applique aux mortaiseuses destinées à couper du bois ou tout matériau similaire.

Cette norme est offerte en format PDF seulement.





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

### **C282-05, 4<sup>e</sup> édition**

*Alimentation électrique de secours des bâtiments* ..... 105 \$

Cette norme s'applique à la conception, à l'installation, au fonctionnement, à l'entretien et à la mise à l'essai de l'appareillage dont le rôle est d'assurer l'alimentation électrique dans des bâtiments ou des installations en cas de panne de l'alimentation normale, lorsqu'une alimentation électrique de secours est exigée dans le *Code national du bâtiment Canada* (CNB).

---

## Amendments

---

### **CAN/CSA-C22.2 No. 38-05**

*Thermoset-Insulated Wires and Cables*

Revision of the title page, the copyright page, Clauses 8.18.2 and 8.18.3, and Table 17.

### **CAN/CSA-C22.2 No. 48-M90 (R2005)**

*Nonmetallic Sheathed Cable*

Revision of Clauses 3.2.1, 4.2.6, and 4.3.2.1, and Table 8. Deletion of Clause 4.3.2.4 and Tables 3 and 17.

### **CAN/CSA-C60104:03 (bilingual)**

*Aluminium-magnesium-silicon alloy wire for overhead line conductors*

(Adopted CEI/IEC 60104:1987, second edition, with Canadian deviations)

Revision of the Canadian deviations to Clause 11.

### **CAN/CSA-C61089:03 (bilingual)**

*Round wire concentric lay overhead electrical stranded conductors*

(Adopted CEI/IEC 1089:1991, first edition, with Canadian deviations)

Revision of the Canadian deviations to Clauses 1.2(b) and 2.

---

## Modifications publiées en français

---

### **CAN/CSA-C22.2 n° 48-M90 (R2005)**

*Câbles sous gaine non métallique*

Des modifications ont été apportées aux articles 3.2.1, 4.2.6 et 4.3.2.1, ainsi qu'au tableau 8. L'article 4.3.2.4 et les tableaux 3 et 17 ont été abrogés.

### **CAN/CSA-C60104:03 (bilingue)**

*Fils en alliage d'aluminium-magnésium-silicium pour conducteurs de lignes aériennes*

(norme CEI/IEC 60104:03, deuxième édition, adoptée avec exigences propres au Canada)

Des modifications ont été apportées aux exigences propres au Canada du chapitre 11.



## Modifications publiées en français (suite)

### **CAN/CSA-C61089:03 (bilingue)**

*Conducteurs pour lignes aériennes à brins circulaires, câblés en couches concentriques*  
(norme CEI/IEC 1089:1991, première édition, adoptée avec exigences propres au Canada)

Des modifications ont été apportées aux exigences propres au Canada des articles 1.2(b) et 2.

---

## Reaffirmed Standards

---

### **C22.2 No. 0.3-01 (R2005)**

*Test Methods for Electrical Wires and Cables*

### **CAN/CSA-C22.2 No. 103-M92 (R2005)**

*Electric Fence Controllers*

### **C22.2 No. 111-00 (R2005)**

*General Use Snap Switches*

### **C22.2 No. 179-00 (R2005)**

*Airport Series Lighting Cables*

### **CAN/CSA-C22.2 No. 203-M91 (R2005)**

*Modular Wiring Systems for Office Furniture*

## ***Under Development***

---

### **Notice of Intent**

---

For more information about the proposed development of the following new projects, contact Brian Haydon at 416-747-4006 or [brian.haydon@csa.ca](mailto:brian.haydon@csa.ca):

- **C22.2 No. 211.1, 3rd edition**  
*Rigid Types EB1 and DB 2/ES2 PVC Conduit*
- **C22.2 No. 211.2, 2nd edition**  
*Rigid PVC (Unplasticized) Conduit*

For more information about the proposed development of the following new projects, contact John O'Neill at 416-747-4042 or [john.oneill@csa.ca](mailto:john.oneill@csa.ca)

- **C22.3 No. 9, 1st edition**  
*Interconnection of Distributed Resources with Electricity Supply Systems*
- **C68.10, 1st edition**  
*Shielded Power Cable Rated 5–46kV*



---

## Drafts for Public Review

---

Please note: Public comments about draft standards, proposed amendments, proposed adoptions, and proposed endorsements listed in this issue are due by February 22, 2006.

### ***Proposed Amendments***

To receive copies of the following proposed amendments, or to offer comments, contact Annie Pereira at 416-747-4094 or [annie.pereira@csa.ca](mailto:annie.pereira@csa.ca):

- **C22.2 No. 52-96**  
*Underground Service Entrance Cables*  
Revision of various clauses and tables.
- **C22.2 No. 130-03**  
*Requirements for Electrical Resistance Heating Cables and Heating Device Sets*  
Revision of various clauses and Annex B.
- **C22.2 No. 211.0-03**  
*General Requirements and Methods of Testing for Nonmetallic Conduit*  
Revision of Clause 6.16.2.

### ***Proposed Adoptions***

For more information about the proposed adoption of the following IEC standards, contact Michael Wilson at 416-747-2532 or [michael.wilson@csa.ca](mailto:michael.wilson@csa.ca):

- **IEC 60065-am1:2005**  
*Audio, video and similar electronic apparatus — Safety requirements — Amendment 1*

For more information about the proposed adoption of the following IEC standard, contact John O'Neill at 416-747-4042 or [john.oneill@csa.ca](mailto:john.oneill@csa.ca):

- **IEC 61000-4-34:2005**  
*Electromagnetic compatibility (EMC) — Part 4-34: Testing and measurement techniques — Voltage dips, short-interruptions and voltage variations immunity tests for equipment with input current more than 16 A per phase*

### ***Proposed Endorsements***

For more information about the proposed endorsement of the following IEC standards, contact John O'Neill at 416-747-4042 or [john.oneill@csa.ca](mailto:john.oneill@csa.ca):

- **IEC 60085 – Ed 3.0 (2004)**  
*Electrical insulation — Thermal classification*
- **IEC 60216-2 – Ed 4.0 (2005)**  
*Electrical insulating materials — Thermal endurance properties — Part 2: Determination of thermal endurance properties of electrical insulating materials — Choice of test criteria*
- **IEC 60371-2 – Ed 3.0 (2004)**  
*Specification for insulating materials based on mica — Part 2: Methods of test*

## Drafts for Public Review (cont'd)

### *Proposed Endorsements (cont'd)*

- **IEC 60450 – Ed 2.0 (2004)**  
*Measurement of the average viscometric degree of polymerization of new and aged cellulosic electrically insulating materials*
- **IEC 60641-2 – Ed 2.0 (2004)**  
*Pressboard and presspaper for electrical purposes — Part 2: Methods of test*

### Proposed Withdrawal of Standards

For more information about the proposed withdrawal of CSA's endorsement of the following standards, contact John O'Neill at 416-747-4042 or john.oneill@csa.ca:

- **ANSI/IEEE 1 (1986)**  
*General principles for temperature limits in the rating of electric equipment and for the evaluation of electrical insulation*
- **IEC 60684-3-403 to 405 (Ed. 1.0, 1988)**  
*Flexible insulating sleeving, Part 3: Specifications for individual types of sleeving, Sheets 403 to 405: Glass textile sleeving with acrylic based coating*

## **Certification and Testing (CSA International)**

### Informs Notices

<b>Date</b>	<b>Subject</b>	<b>Title</b>
October 7, 2005	Publication of CAN/CSA C22.2 No. 61058-1-05, <i>Switches for Appliances, Part 1: General Requirements.</i>	Switches No. 10
October 21, 2005	Publication of Update No. 5 to CSA standard CAN/CSA-C22.2 No. 48-M90 (R2005), <i>Nonmetallic Sheathed Cable.</i>	Wire and Cable No. 120



---

**Certification Notices**

---

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

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
► Immediately	Publication of Update No. 2 for CSA standard CAN/CSA-C22.2 No. 110-94, <i>Construction and Test of Electric Storage-Tank Water Heaters</i> .	Electric Water Heaters No. 4
January 16, 2006	Publication of the second edition of CSA standard C22.2 No. 188-04, <i>Splicing Wire Connectors</i> .	Wiring Devices No. 36
February 15, 2006	Publication of CSA standard C22.2 No. 236-05, <i>Heating and Cooling Equipment</i> .	Heating and Cooling Equipment No. 5
March 26, 2006	Publication of the ninth edition of UL 197, <i>Commercial Electric Cooking Appliances</i> , with a new effective date. (Supersedes Appliances No. 6, dated November 30, 2004.)	Appliances No. 6A
March 31, 2006	Publication of Update No. 2 to CSA standard C22.2 No. 214-02, <i>Communications Cables</i> .	Wire and Cable No. 117
April 7, 2006	Extension of the effective date specified in Wire and Cable No. 105.	Wire and Cable No. 105A
May 24, 2006	Publication of amendments to CSA standard C22.2 No. 112-97/UL 2158, <i>Electric Clothes Dryers</i> , with a new effective date. (Supersedes Appliances No. 3, dated June 4, 2004.)	Appliances No. 3A
June 1, 2006	Publication of amendments to UL standard 1059, <i>Terminal Blocks</i> . Major changes include the method of conducting temperature tests.	Wiring Devices No. 40
June 2, 2006	Publication of Technical Information Letter No. H-18, covering interim certification requirements for burner controls incorporating programmable logic. These requirements supplement those of C22.2 No. 199 and C22.2 No. 0.8.	Signal Sensing and Controls No. 3
July 28, 2006	Publication of CSA standard C22.2 No. 14-05, <i>Industrial Control Equipment</i> .	Industrial Control Equipment No. 17
July 31, 2006	Publication of Technical Information Letter No. D-29, providing interim certification requirements for disconnect switches incorporating button contacts.	Switches No. 9
August 1, 2006	Publication of CSA standard C22.2 No. 227.3-05, <i>Nonmetallic Mechanical Protection Tubing (NMPT)</i> (bi-national standard with UL 1696).	Conduit No. 16

**Certification Notices (cont'd)**

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
August 31, 2006	Publication of Technical Information Letter No. C-39, providing interim certification requirements for cord-connected, portable deep fat fryers, cooker/fryers, frying pans and similar appliances.	Appliances No. 11
▶ September 1, 2006	Publication of CSA standard C22.2 No. 198.3-05, <i>Coated Electrical Sleeving</i> (bi-national standard, with UL 1441). (Supersedes Wire and Cable No. 61.)	Wiring Devices No. 42
September 1, 2006	Publication of Technical Information Letter No. G-48, providing interim certification requirements for clothes dryer booster fans.	Fans and Ventilators No. 6
October 31, 2006	Publication of CSA standard C22.2 No. 42.1-00, <i>Cover Plates for Flush-Mounted Wiring Devices</i> (bi-national standard with UL 514D).	Wiring Devices No. 39
November 1, 2006	A new effective date for the sixth edition of CSA standard C22.2 No. 100-04, <i>Motors and Generators</i> . (Supersedes Motors and Generators No. 4.)	Motors and Generators No. 5
December 16, 2006	Publication of amendments to CSA standard C22.2 No. 169-97/UL 2157, <i>Electric Clothes Washing Machines and Extractors</i> , with a new effective date. (Supersedes Appliances No. 4, dated January 31, 2005.)	Appliances No. 4A
March 30, 2007	Publication of Technical Information Letter No. A-32, proving interim certification requirements for outdoor portable multiple-receptacle extension boxes.	Wiring Devices No. 41
June 1, 2007	Publication of amendments to CSA standard CAN/CSA-C22.2 No. 60745-1-04, <i>Hand-held motor-operated electric tools — Safety — Part 1: General requirements</i> (bi-national standard, with UL 60745-1), and four new CAN/CSA-60745 Part 2-05 standards, covering concrete vibrators, strapping tools, band saws, and drain cleaners.	Electrical Tools No. 16
August 31, 2007	Publication of CSA standard C22.2 No. 38-05, <i>Thermosetting Insulated Wires and Cables</i> , and Technical Information Letter No. J-35, covering additional certification requirements (Heat Deformation Test).	Wire and Cable No. 118



### Certification Notices (cont'd)

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
December 31, 2008	Publication of the third edition of CSA standard C22.2 No. 130-03, <i>Requirements for Electrical Resistance Heating Cables and Heating Device Sets</i> .	Wiring Devices No. 37
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



## Completed Projects / Projets terminés

---

### New Standards – New Editions – Special Publications

---

#### Z245.11-05, 5th edition

*Steel Fittings*..... \$125

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.

#### Z245.12-05, 5th edition

*Steel Flanges*..... \$125

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

---

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

---

#### B140.7-05, 2<sup>e</sup> édition

*Appareils de combustion au mazout : chaudières à vapeur et à eau chaude* ..... 80 \$

Cette norme vise les chaudières à vapeur et (ou) à eau chaude alimentées au mazout, raccordées à un conduit d'évacuation et munies de réglages automatiques.

Cette norme vise :

- les chaudières pour usage d'habitation consommant moins de 11,5 L/h (3 gal US/h), soit environ 117 kW (400 000 BTU/h)
- les chaudières à basse pression pour usage commercial ou industriel consommant 11,5 L/h (3 gal US/h) et plus
- les chaudières à haute pression, quel que soit leur usage ou leur consommation.

#### C656-05, 2<sup>e</sup> édition

*Évaluation des performances des climatiseurs centraux et des thermopompes biblocs et monoblocs*..... 75 \$

Cette norme vise :

- les climatiseurs et les thermopompes individuels biblocs et monoblocs fabriqués en usine et dont la source chaude ou froide est de l'air, ainsi que les ensembles compatibles, du type indiqué à l'article 1.2 et destinés à la climatisation et au chauffage des bâtiments
- les climatiseurs et les thermopompes centraux muraux biblocs et monoblocs à grand débit et à petits conduits, installés dans un mur, ainsi que les ensembles compatibles, du type indiqué à l'article 1.2 et destinés à climatisation et au chauffage des bâtiments
- les systèmes électromécaniques à compression de vapeur contenant un des frigorigènes du groupe 1 de la CSA B52
- les appareils ayant une puissance calorifique ou frigorigène nominale inférieure à 19,0 kW (65 000 BTU/h) en conditions normales.





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

### **N286.7-99, 2<sup>e</sup> édition (C2003)**

*Assurance de la qualité des programmes informatiques scientifiques, d'analyse et de conception des centrales nucléaires* ..... 110 \$

Cette norme énonce les exigences relatives au programme d'assurance de la qualité qui s'appliquent à la conception, au développement, à la maintenance, à la modification et à l'utilisation des programmes informatiques scientifiques, d'analyse et de conception utilisés dans les centrales nucléaires.

---

## **Amendments**

### **CAN/CSA-Z662-03**

*Oil and Gas Pipeline Systems*

Revision of Clauses 2, 5.4.1, 10.11.1, 13.1.2.5, 13.1.2.7, 13.1.2.9, and C6.3.3.3, Table 10.1, and Figures 1.1, 1.2, 7.2, and B.1.

### **CAN/CSA-Z662S1-05**

*Supplement No. 1 to CAN/CSA-Z662-03, "Oil and Gas Pipeline Systems"*

Revision of the Contents. Addition of Annexes M and N.

---

## **Modifications publiées en français**

### **CAN/CSA-Z662S1-05**

*Supplément n° 1 à la CAN/CSA-Z662-03, « Câbles sous gaine non métallique »*

Des modifications ont été apportées à la table des matières. Les annexes M et N ont été ajoutés.

---

## **Reaffirmed Standards**

### **CAN/CSA-B415.1-00 (R2005)**

*Performance Testing of Solid-Fuel-Burning Heating Appliances*

### **CAN/CSA-C802.1-00 (R2005)**

*Minimum Efficiency Values for Liquid-Filled Distribution Transformers*

### **CAN/CSA-C819-95 (R2005)**

*Performance of General Service Fluorescent Lamps*

---

## Formal Interpretations

---

The following interpretation regarding Clause 7.4.2 of CSA standard CAN/CSA-B836-00, *Storage, Handling and Dispensing of Aviation Fuels at Aerodromes*, has been approved by the Technical Committee on Storage, Handling and Dispensing of Aviation Fuels at Aerodromes.

**Question:** Can I use one sample from one of the three locations to represent these 10 drums of fuel of the same batch number?

**Answer:** No.

The following interpretation regarding Clause 3.2.4 of CSA standard CAN/CSA-C828-99, *Performance Requirements for Thermostats Used with Individual Room Electric Space Heating Devices*, has been approved by the Technical Committee on Residential Equipment.

**Question:** Is the variance for set point precision 2.5 ° C in Clause 3.2.4 of CSA Standard C828-99, *Performance Requirements for Thermostats Used with Individual Room Electrical Space Heating Devices*?

**Answer:** No.

## Under Development

---

### Notice of Intent

---

For more information about the proposed development of the following new projects, contact Ted Shin at 416-747-2642 or ted.shin@csa.ca:

- **N290.5, 2nd edition**  
*Requirements for the Support Power Systems of CANDU Nuclear Power Plants*
- **N290.14, 1st edition**  
*Pre-Developed Embedded Software Used in Safety-Related Systems*

## 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, 2006	Publication of CSA B140.4-04, <i>Oil-Fired Warm Air Furnaces</i> .	Fuel Burning Equipment No. 88



### Certification Notices (cont'd)

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
December 1, 2006	Publication of CSA standard B140.7-05, <i>Oil-Burning Equipment: Steam and Hot-Water Boilers</i> . (Supersedes the previous editions of CSA B140.7.1-1976, <i>Oil-Fired Steam and Hot-Water Boilers for Residential Use</i> , and CSA B140.7.2-1976, <i>Oil-Fired Steam and Hot Water Boilers for Commercial Use</i> .)	Fuel Burning Equipment No. 86
December 1, 2006	Publication of CSA standard B140.12-03, <i>Oil-Burning Equipment: Service Water Heaters for Domestic Hot Water, Space Heating, and Swimming Pools</i> .	Fuel Burning Equipment No. 87



## Completed Projects / Projets terminés

---

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

---

#### **Z772-05, 1<sup>re</sup> édition**

*Systèmes de gestion environnementale pour les exploitations porcines : Guide d'application* ..... 60 \$

Cette norme vise à expliquer méthodiquement chaque disposition de la CAN/CSA-Z771. Des techniques, outils et exemples d'application sont également fournis.

Un système de gestion environnementale (SGE) est un outil qui permet d'appliquer systématiquement des principes de gestion généraux aux enjeux environnementaux associés aux activités, aux produits et aux services d'une organisation. Dans la CAN/CSA-Z771, on applique ces principes de gestion aux enjeux environnementaux associés aux élevages de porcs.

---

### Reaffirmed Standards

---

#### **CAN/CSA-ISO/TR 14025-01 (R2005)**

*Environmental labels and declarations — Type III environmental declarations*  
(Adopted ISO/TR 14025:2000, 1st edition, without modification)

## Under Development

---

### Notice of Intent

---

For more information about the proposed development of the following new project, contact Brian Rawson at 613-565-5151 or [brawson@ghgregistries.ca](mailto:brawson@ghgregistries.ca):

- **PLUS 14064-1, 1st edition**  
*Reporting Guidance Document*

---

### Proposed Reaffirmation of Standards

---

For more information about the proposed reaffirmation of the following standard, contact David Zimmerman at 416-747-2479 or [david.zimmerman@csa.ca](mailto:david.zimmerman@csa.ca):

- **Z766-95 (R2001)**  
*Environmentally Responsible Procurement (“Green Procurement”)*



---

## Proposed Withdrawal of Standards

---

For more information about the proposed withdrawal of the following standards, contact David Zimmerman at 416-747-2479 or david.zimmerman@csa.ca:

- **PLUS 1107**  
*User Guide to Life Cycle Assessment: Conceptual LCA in Practice*
- **PLUS 1109**  
*Environmental Terminology for Canadian Business*
- **PLUS 1115**  
*Life Cycle Review*
- **PLUS 1118**  
*Competing Leaner, Keener, and Greener — Small Business Guide to ISO 14000 Instructors Guide*
- **PLUS 1119**  
*Life Cycle Impact Assessment Methodology for the Production Phase of the Pulp and Paper Life Cycle*
- **PLUS 1141**  
*Managing the Regulatory Requirements Facing the Canadian Aquaculture Industry*
- **PLUS 1144**  
*Evaluating Environmental Performance: Indicators and Measures — A Small Business Guide*
- **PLUS 9015**  
*Interpretations — CSA Sustainable Forest Management Standards CAN/CSA-Z808-96 and CAN/CSA-Z809-96*
- **PLUS 9015S1**  
*Supplement No. 1 to PLUS 9015, “Interpretations — CSA Sustainable Forest Management Standards CAN/CSA-Z808-96 and CAN/CSA-Z809-96”*

## **Completed Projects / Projets terminés**

---

### **New Standards – New Editions – Special Publications**

---

#### **ANSI Z21.57-2005, 9th edition**

*Recreational Vehicle Cooking Gas Appliances* ..... \$600

This standard applies to newly produced compact cooking gas appliances, constructed of entirely new, unused parts and materials, intended for installation in recreational vehicles, including recreational park trailers.

---

### **Amendments**

---

#### **ANSI Z21.50b-2005/CSA 2.22b-2005**

*Addenda B to “Vented Gas Fireplaces”* ..... \$105

This document provides revisions to ANSI Z21.50-2003/CSA 2.22-2003 and ANSI Z21.50a-2003/CSA 2.22a-2003.

#### **ANSI Z21.86a-2005/CSA 2.32a-2005**

*Addenda A to “Vented Gas-Fired Space Heating Appliances”* ..... \$105

This document provides revisions to ANSI Z21.86-2004/CSA 2.32-2004.

#### **ANSI Z83.18a-2005**

*Addenda A to “Recirculating Direct Gas-Fired Industrial Air Heaters”* ..... \$75

This document provides revisions to ANSI Z83.18-2004.

## **Under Development**

---

### **Drafts for Public Review**

---

**Please note:** Public comments about draft standards, proposed amendments, proposed adoptions, and proposed endorsements listed in this issue are due by February 22, 2006.

#### ***Draft Standards***

To receive copies of the following draft standards, or to offer comments, contact Tony Cautillo at 416-747-2212 or [tony.cautillo@csa.ca](mailto:tony.cautillo@csa.ca):

- **B105S1**  
*Supplement No. 1 to CAN/CGA-B105-M93, “Code for Digester Gas and Landfill Gas Installations”*
- **B149.1S1**  
*Supplement No. 1 to CAN/CSA-B149.1-05, “Natural Gas and Propane Installation Code”*



### Drafts for Public Review (cont'd)

- **B149.2S1**  
*Supplement No. 1 to CAN/CSA-B149.2-05, “Propane Storage and Handling Code”*
- **B149.3S1**  
*Supplement No. 1 to CAN/CSA-B149.3-05, “Code for the Field Approval of Fuel-Related Components on Appliances and Equipment”*
- **B149.5S1**  
*Supplement No. 1 to CAN/CSA-B149.5-05, “Installation Code for Propane Fuel Systems and Tanks on Highway Vehicles”*

## Certification and Testing (CSA International)

### Informs Notices

Date	Subject	Title
November 30, 2005	Clarification of Gas Products No. 81, <i>Certification of Corrugated Stainless Steel Tubing (CSST) rated at 25 psi</i> . ANSI/IAS LC1-2005/CSA 6.26-2005 does not provide capacity tables for products rated at 25 psi. As a result, CSA will not be offering certification of products rated at this pressure. When the standard is revised to provide the appropriate tables, CSA will reconsider its position.	Gas Products No. 88

### Certification Notices

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

Effective Date	Subject	Title
January 2, 2006	Publication of addenda ANSI Z21.10.1a-2002/CSA 4.1a-2002 and ANSI Z21.10.1b-2004/CSA 4.1b-2004, <i>Gas Water Heaters, Volume I, Storage Water Heaters with Input Ratings of 75,000 BTU per hour or Less</i> . (Supersedes Gas Products No. 7.)	Gas Products No. 48
March 1, 2006	Publication of addenda ANSI Z21.11.2b-2004, <i>Gas-Fired Room Heaters — Volume II, Unvented Room Heaters</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.11.2-2002 and ANSI Z21.11.2a-2003.	Gas Products No. 47

**Certification Notices (cont'd)**

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
March 1, 2006	Publication of addenda ANSI Z21.84b-2004, <i>Manually Lighted, Natural Gas Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.84-2002 and ANSI Z21.84a-2003.	Gas Products No. 43A
March 1, 2006	Publication of addenda ANSI Z21.47a-2004/CSA 2.3a-2004, <i>Gas-Fired Central Furnaces</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.47-2003/CSA 2.3-2003.	Gas Products No. 62
June 1, 2006	Publication of ANSI Z21.13-2004/CSA 4.9-2004, <i>Gas-Fired Low-Pressure Steam and Hot Water Boilers</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.13-2000/CSA 4.9-2000, ANSI Z21.13a-2002/CSA 4.9a-2002, and ANSI Z21.13b-2003/CSA 4.9b-2003.	Gas Products No. 45
June 1, 2006	Publication of ANSI Z83.18-2004, <i>Recirculating Direct Gas-Fired Industrial Air Heaters</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z83.18-2000, ANSI Z83.18a-2001, and ANSI Z83.18b-2003.	Gas Products No. 59
July 1, 2006	Publication of ANSI/IAS LC1-2005/CSA 6.26-2005, <i>Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)</i> . The revisions in this standard supersede any corresponding provisions of ANSI/IAS LC-1-1997, ANSI/IAS LC-1a-1999 and ANSI/IAS LC 1b-2001.	Gas Products No. 81
July 1, 2006	Publication of ANSI Z21.41a-2005/CSA 6.9a-2005, <i>Quick Disconnect Devices for Use With Gas Fuel Appliances</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.41-2003/CSA 6.9-2003.	Gas Products No. 82
August 1, 2006	Publication of ANSI Z21.1-2005, <i>Household Cooking Gas Appliances</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.1-2000, ANSI Z21.1a-2003, and ANSI Z21.1b-2003.	Gas Products No. 67



**Certification Notices (cont'd)**

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
August 1, 2006	Publication of ANSI Z21.58-2005/CSA 1.6-2005, <i>Outdoor Cooking Gas Appliances</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.58-1995/CGA 1.6-M95, ANSI Z21.58a-1998/CGA 1.6a-1998, and ANSI Z21.58b-2002/CSA 1.6b-2002.	Gas Products No. 68
August 1, 2006	Publication of ANSI Z21.20-2005, <i>Automatic Gas Ignition Systems and Components</i> . The revisions in this standard supersede any corresponding provisions of ANSI Z21.20-2000, Z21.20a-2000 and Z21.20b-2001.	Gas Products No. 69
August 1, 2006	Publication of addenda ANSI Z21.13a-2005/CSA 4.9a-2005, <i>Gas-Fired Low-Pressure Steam and Hot Water Boilers</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.13-2004/CSA 4.9-2004.	Gas Products No. 75
September 1, 2006	Publication of Update No. 14 to CSA standard CAN1-3.1-77 (R2001), <i>Industrial and Commercial Gas-Fired Package Boilers</i> .	Gas Products No. 86
▶ September 1, 2006	Withdrawal of ANSI Z83.17/CAN 1-3.12, <i>Direct Gas-Fired Door Heaters</i> . The certification of direct gas-fired door heaters is now covered under ANSI Z83.4/CSA 3.7, <i>Non-Recirculating Direct Gas-Fired Industrial Air Heaters</i> .	Gas Products No. 87



## Completed Projects / Projets terminés

---

### New Standards – New Editions – Special Publications

---

**CAN/CSA-C22.2 No. 60601-1-6:05, 1st edition (bilingual)**

*Medical electrical equipment — Part 1-6: General requirements for safety — Collateral Standard: Usability* (Adopted CEI/IEC 60601-1-6:2004, first edition, without modification) ..... \$220

This standard specifies requirements for a process to analyse, design, verify and validate the usability, as it relates to the safety of medical electrical equipment. This standard addresses normal use and use errors but excludes abnormal use.

This document is available in portable document format (PDF) only.

**CAN/CSA-C22.2 No. 60601-1-8:05, 1st edition (bilingual)**

*Medical electrical equipment — Part 1-8: General requirements for safety — Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems* (Adopted CEI/IEC 60601-1-8:2005, first edition, without modification) ..... \$250

This standard specifies requirements for alarm systems and alarm signals in medical electrical equipment and medical electrical systems.

This standard also provides guidance for the application of alarm systems.

This document is available in portable document format (PDF) only.

---

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

---

**B52HB-05, 1<sup>re</sup> édition**

*Guide pratique pour l'utilisation de la CSA B52, Code sur la réfrigération mécanique* ..... 75 \$

L'objectif premier de ce guide préparé à l'intention des utilisateurs de la CSA B52, qu'ils soient avertis ou novices, est d'expliquer de manière concise et conviviale la CSA B52 et d'en faciliter la mise en application.

**CAN/CSA-C22.2 n° 60601-1-6:05, 1<sup>re</sup> édition (bilingue)**

*Appareils électromédicaux — Partie 1-6 : Règles générales de sécurité — Norme collatérale : Aptitude à l'utilisation* (norme CEI/IEC 60601-1-6:2004, première édition, adoptée sans modifications) ..... 220 \$

Cette norme spécifie les exigences d'un processus destiné à analyser, concevoir, vérifier et valider l'aptitude à l'utilisation concernant la sécurité des appareils électromédicaux. Cette norme traite de l'utilisation normale et des erreurs d'utilisation mais exclut l'utilisation anormale.

Cette norme est offerte en format PDF seulement.



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

### **CAN/CSA-C22.2 n° 60601-1-8:05, 1<sup>re</sup> édition (bilingue)**

*Appareils électromédicaux — Partie 1-8 : Règles générales de sécurité — Norme collatérale : Règles générales, essais et recommandations pour les systèmes d’alarme des appareils et des systèmes d’alarme des appareils et des systèmes électromédicaux* (norme CEI/IEC 60601-1-8:2005, première édition, adoptée sans modifications) ..... 250 \$

Cette norme spécifie les exigences applicables aux systèmes d’alarme et aux signaux d’alarme des appareils et des systèmes électromédicaux.

Cette norme donne également des lignes directrices pour l’application des systèmes d’alarme.

Cette norme est offerte en format PDF seulement.

### **Z94.1-05, 5<sup>e</sup> édition**

*Casques de sécurité pour l’industrie : tenue en service, sélection, entretien et utilisation* ..... 55 \$

Cette norme traite des casques de sécurité destinés aux travailleurs de l’industrie, de la construction, des mines, des services publics et du secteur forestier. Elle définit les régions de la tête qui doivent être protégées et énonce les caractéristiques minimales requises en ce qui a trait à la rigidité diélectrique, à l’amortissement des chocs, à la résistance à la pénétration d’objets et à la stabilité de même qu’à l’inflammabilité de la calotte et à la résistance à l’inflammation de la doublure.

### **Z275.2-04, 4<sup>e</sup> édition**

*Règles de sécurité pour les travailleurs en plongée* ..... 75 \$

Cette norme vise les opérations de plongée professionnelle et définit les règles de sécurité qui s’appliquent dans tous les cas.

La norme traite de l’équipement nécessaire aux systèmes de plongée suivants :

- plongée autonome
- plongée non autonome
- plongée en eau profonde
- plongée dans des environnements contaminés.

## Amendments

### **CAN/CSA C22.2 No. 60601-2-11A-05**

*Amendment 1:2005 to CAN/CSA-C22.2 No. 60601-2-11-01, “Medical electrical equipment — Part 2-11: Particular requirements for the safety of gamma beam therapy equipment”* (Adopted Amendment 1:2004 to CEI/IEC 60601-2-11:1997, without modification) ..... \$50

This document provides revisions to CAN/CSA-C22.2 No. 60601-2-11-01.

This document is available in portable document format (PDF) only.

**Amendments (cont'd)****CAN/CSA C22.2 No. 60601-2-37A:05**

*Amendment 1:2005 to CAN/CSA-C22.2 No. 60601-2-37:03, “Medical electrical equipment — Part 2-37: Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment” (Adopted Amendment 1:2004 to CEI/IEC 60601-2-37:2001, without modification) ..... \$65*

This document provides revisions to CAN/CSA-C22.2 No. 60601-2-37:03.

This document is available in portable document format (PDF) only.

**CAN/CSA-Z248-04**

*Code for Tower Cranes*

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

---

**Modifications publiées en français**


---

**CAN/CSA-Z248-04**

*Code sur les grues à tour*

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.

---

**Reaffirmed Standards**


---

**CAN/CSA-B613-00 (R2005)**

*Private Residence Lifts for Persons with Physical Disabilities*

**CAN/CSA-ISO 9241-2-00 (R2005)**

*Ergonomic requirements for office work with visual display terminals (VDTs) — Part 2: Guidance of task requirements (Adopted ISO 9241-2:1992, first edition, without modification)*

**CAN/CSA-ISO 9241-5-00 (R2005)**

*Ergonomic requirements for office work with visual display terminals (VDTs) — Part 5: Workstation layout and postural requirements (Adopted ISO 9241-5:1998, first edition, without modification)*

**CAN/CSA-ISO 9241-7-00 (R2005)**

*Ergonomic requirements for office work with visual display terminals (VDTs) — Part 7: Requirements for display with reflections (Adopted ISO 9241-7:1998, first edition, without modification)*

**CAN/CSA-ISO 9241-8-00 (R2005)**

*Ergonomic requirements for office work with visual display terminals (VDTs) — Part 8: Requirements for displayed colours (Adopted ISO 9241-8:1997, first edition, without modification)*



## Reaffirmed Standards (cont'd)

### **CAN/CSA-ISO 9241-9-00 (R2005)**

*Ergonomic requirements for office work with visual display terminals (VDTs) — Part 9: Requirements for non-keyboard input devices* (Adopted ISO 9241-9:2000, first edition, without modification)

## ***Under Development***

---

### **Notice of Intent**

---

For more information about the proposed development of the following new projects, contact Jeffrey Kraegel at 416-747-2249 or [jeffrey.kraegel@csa.ca](mailto:jeffrey.kraegel@csa.ca):

- **Z314.1, 5th edition**  
*Ethylene Oxide Sterilizers for Health Care Facilities*
- **Z314.2, 5th edition**  
*Effective Sterilization in Health Care Facilities by the Ethylene Oxide Process*
- **Z314.3, 5th edition**  
*Effective Sterilization in Health Care Facilities by the Steam Process*
- **Z314.8, 3rd edition**  
*Decontamination of Reusable Medical Devices*
- **Z17664, 1st edition**  
*Sterilization of medical devices — Information to be provided by the manufacturer for the reprocessing of resterilizable devices* (Adopted ISO 17664:2004, first edition, without modification)

---

### **Drafts for Public Review**

---

**Please note:** Public comments about draft standards, proposed amendments, proposed adoptions, and proposed endorsements listed in this issue are due by February 22, 2006.

#### ***Draft Standards***

To receive copies of the following draft standard, or to offer comments, contact Jeet Tulshi at 416-747-2603 or [totaram.tulshi@csa.ca](mailto:totaram.tulshi@csa.ca):

- **Z98, 6th edition**  
*Passenger Ropeways and Conveyors*

## Drafts for Public Review (cont'd)

### *Proposed Adoptions*

For more information about the proposed adoption of the following ISO standards, contact Mike Dodd at 416-747-2322 or [mike.dodd@csa.ca](mailto:mike.dodd@csa.ca):

- **ISO 9241-1/Amd 1:2001**  
*Ergonomic requirements for office work with visual display terminals (VDTs) — Part 1: General introduction — Amendment 1*
- **ISO 9241-3/Amd 1:2000**  
*Ergonomic requirements for office work with visual display terminals (VDTs) — Part 3: Visual display requirements — Amendment 1*
- **ISO 9241-4/Cor 1:2000**  
*Ergonomic requirements for office work with visual display terminals (VDTs) — Part 4: Keyboard requirements — Technical Corrigendum 1*

For more information about the proposed adoption of the following IEC standards, contact Michael Wilson at 416-747-2532 or [michael.wilson@csa.ca](mailto:michael.wilson@csa.ca):

- **IEC 60601-2-13:2003**  
*Medical electrical equipment — Part 2-13: Particular requirements for the safety and essential performance of anaesthetic systems*
- **IEC 60601-2-27:2005**  
*Medical electrical equipment — Part 2-27: Particular requirements for the safety, including essential performance, of electrocardiographic monitoring equipment*
- **IEC 60601-2-33-am1:2005**  
*Amendment 1 — Medical electrical equipment – Part 2-33: Particular requirements for the safety of magnetic resonance equipment for medical diagnosis*

---

### Proposed Withdrawal of Standards

---

For more information about the proposed withdrawal of the following standards, contact Dave Shanahan at 416-747-2586 or [dave.shanahan@csa.ca](mailto:dave.shanahan@csa.ca):

- **CAN/CSA-M422-M87 (R2005)**  
*Fire-Performance and Antistatic Requirements for Conveyor Belting*
- **CAN/CSA-M423-M87 (R2000)**  
*Fire-Resistant Hydraulic Fluids*
- **CAN/CSA-M424.1-88 (R2000)**  
*Flameproof Non-Rail-Bound Diesel-Powered Machines for Use in Gassy Underground Coal Mines*
- **CAN/CSA-M424.2-M90 (R2004)**  
*Non-Rail-Bound Diesel-Powered Machines for Use in Non-Gassy Underground Mines*



### Proposed Withdrawal of Standards (cont'd)

- **CAN/CSA-M424.3-M90 (R2001)**  
*Braking Performance — Rubber-Tired, Self-Propelled Underground Mining Machines*
- **CAN/CSA-M427-M91 (R2001)**  
*Fire-Performance and Antistatic Requirements for Ventilation Materials*
- **CAN/CSA-M430-90 (R2000)**  
*Roof and Rock Bolts, and Accessories*

## **Certification and Testing (CSA International)**

---

### Certification Notices

---

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

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
► April 1, 2006	Publication of CSA standard Z94.1-05, <i>Industrial Protective Headwear — Performance, Selection, Care and Use.</i>	Occupational Health and Safety Products No. 43
April 1, 2006	Publication of CSA standard B44.1-04/ ASME A17.5-2004, <i>Elevator and Escalator Electrical Equipment.</i>	Elevator Equipment No. 15



## ***Completed Projects / Projets terminés***

---

### **New Standards – New Editions – Special Publications**

---

#### **CAN/CSA-ISO 9000:05, 2nd edition**

*Quality management systems — Fundamentals and vocabulary*

(Adopted ISO 9000:2005, third edition, without modification) ..... \$120

This standard describes fundamentals of quality management systems, which form the subject of the ISO 9000 family, and defines related terms.

This standard applies to the following:

- organizations seeking advantage through the implementation of a quality management system
- organizations seeking confidence from their suppliers that their product requirements will be satisfied
- users of the products
- those concerned with a mutual understanding of the terminology used in quality management
- those inside or outside the organization who assess the quality management system or audit it for conformity with the requirements of ISO 9001
- those inside or outside the organization who give advice or training on the quality management system appropriate to that organization
- developers of related standards.

This document is available in portable document format (PDF) only.

#### **CAN/CSA-ISO 10005:05, 2nd edition**

*Quality management systems — Guidelines for quality plans*

(Adopted ISO 10005:2005, second edition, without modification)..... \$100

This standard provides guidelines for the development, review, acceptance, application and revision of quality plans.

The standard is applicable whether or not the organization has a management system in conformity with ISO 9001.

This standard applies to quality plans for a process, product, project or contract, in any product category (hardware, software, processed materials and services) and in any industry.





---

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

---

### **CAN/CSA-ISO 9000:05, 2<sup>e</sup> édition**

*Systèmes de management de la qualité — Principes essentiels et vocabulaire*  
(norme ISO 9000:2005, troisième édition, adoptée sans modifications)..... 120 \$

Cette norme décrit les principes essentiels des systèmes de management de la qualité, objet de la famille des normes ISO 9000, et en définit les termes associés.

Cette norme est applicable

- a) aux organismes cherchant à progresser par la mise en œuvre d'un système de management de la qualité ;
- b) aux organismes qui cherchent à s'assurer que leurs fournisseurs satisferont leurs exigences relatives aux produits ;
- c) aux utilisateurs des produits ;
- d) aux personnes concernées par une compréhension mutuelle de la terminologie utilisée dans le domaine du management de la qualité ;
- e) aux personnes internes ou externes à l'organisme, qui évaluent ou audient le système de management de la qualité en termes de conformité aux exigences de l'ISO 9001 ;
- f) aux personnes internes ou externes à l'organisme qui donnent des conseils ou fournissent une formation sur le système de management de la qualité qui lui convient ; ou
- g) aux personnes qui élaborent des normes apparentées.

Cette norme est offerte en format PDF seulement.

### **CAN/CSA-ISO 10005:05, 2<sup>e</sup> édition**

*Systèmes de management de la qualité — Lignes directrices pour les plans qualité*  
(norme ISO 10005:2005, deuxième édition, adoptée sans modifications) ..... 100 \$

Cette norme fournit des lignes directrices pour le développement, la revue, l'acceptation, l'application et la révision de plans qualité.

Elle convient aux organismes disposant ou non d'un système de management conforme à l'ISO 9001.

Cette norme est applicable aux plans qualité élaborés pour un processus, un produit, un projet ou un contrat, pour toute catégorie de produits (matériels, logiciels, produits issus de processus à caractère continu et services) et pour tout secteur industriel.



## ***Under Development***

---

### **Proposed Withdrawal of Standards**

---

For more information about the proposed withdrawal of the following ISO standards, contact David Zimmerman at 416-747-2479 or david.zimmerman@csa.ca:

- **CAN/CSA-ISO 9000-2-98 (R2002)**  
*Quality management and quality assurance standards — Part 2: Generic guidelines for the application of ISO 9001, ISO 9002 and ISO 9003* (Adopted ISO 9000-2:1997, second edition, without modification)
- **CAN/CSA-ISO 9000-3-98 (R2002)**  
*Quality management and quality assurance standards — Part 3: Guidelines for the application of ISO 9001:1994 to the development, supply, installation and maintenance of computer software* (Adopted ISO 9000-3:1997, second edition, without modification)
- **CAN/CSA-ISO 9000-4-96 (R2001)**  
*Quality management and quality assurance standards — Part 4: Guide to dependability programme management* (Adopted ISO 9000-4:1993, first edition, without modification)
- **CAN/CSA-ISO 9004-2-94 (R2001)**  
*Quality management and quality system elements — Part 2: Guidelines for services* (Adopted ISO 9004-2:1991, first edition, without modification)
- **CAN/CSA-ISO 9004-3-94 (R2001)**  
*Quality management and quality system elements — Part 3: Guidelines for processed materials* (Adopted ISO 9004-3:1993, first edition, without modification)
- **CAN/CSA-ISO 9004-4-94 (R2001)**  
*Quality management and quality system elements — Part 4: Guidelines for quality improvement* (Adopted ISO 9004-4:1993, first edition, without modification)



## Contact Information

To order CSA Standards and Information Products  
call 1-800-463-6727, or visit our  
Online Store at [www.csa.ca](http://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](mailto: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](mailto: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](mailto: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](mailto:seminars@csa.ca)