



**CANADIAN STANDARDS  
ASSOCIATION**

**INFO UPDATE**

**Volume 8 December 2006**

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## 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

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## What you'll find

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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. Although the proposal is to Reaffirm these standards, the result of the review may be to Withdraw them. Action taken will be announced in a future issue of *Info Update*.

### ▼ 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*. Although the proposal is to Withdraw these standards, the result of the review may be to Reaffirm them. Action taken will be announced in a future 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

[A283-06, 4th edition](#)

*Qualification Code for Concrete Testing Laboratories*

[B1800-06, 3rd edition](#)

*Thermoplastic Nonpressure Piping Compendium*

[CAN/CSA-S6-06, 10th edition](#)

*Canadian Highway Bridge Design Code*

[S6.1-06, 3rd edition](#)

*Commentary on CAN/CSA-S6-06, “Canadian Highway Bridge Design Code”*

[W117.2-06, 5th edition](#)

*Safety in Welding, Cutting, and Allied Processes*



### Produits et matériaux de construction

[B70-06, 10<sup>e</sup> édition](#)

*Tuyaux et raccords d'évacuation d'eaux usées en fonte et méthodes de raccordement*

[CAN/CSA-S6-06, 10<sup>e</sup> édition](#)

*Code canadien sur le calcul des ponts routiers*

[W48-06, 2<sup>e</sup> édition](#)

*Métaux d'apport et matériaux associés pour le soudage à l'arc*



### Electrical/Electronics

[CAN/CSA-E61131-2:06, 1st edition](#)

*Programmable controllers — Part 2: Equipment requirements and tests*

(Adopted IEC 61131-2:2003, second edition, including Corrigendum 1:2004, with Canadian deviations)



### Électricité et électronique

[C22.2 n° 227.1-06, 10<sup>e</sup> édition](#)

*Tubes électriques non métalliques*

 **Energy**

[C746-06, 3rd edition](#)

*Performance Standard for Rating Large and Single-Packaged Vertical Air Conditioners and Heat Pumps*

[C861-06, 2nd edition](#)

*Performance of Self-Ballasted Compact Fluorescent Lamps and Ballasted Adapters*

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 **Life Sciences**

[CAN/CSA-ISO/TR 17119:06, 1st edition](#)

*Health informatics — Health informatics profiling framework*

(Adopted ISO/TR 17119:2005, first edition, without modification)

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 **Quality / Business Management**

[CAN/CSA-ISO 10014:06, 1st edition](#)

*Quality management — Guidelines for realizing financial and economic benefits*

(Adopted ISO 10014:2006, first edition, without modification)



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



## Completed Projects / Projets terminés

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### New Standards – New Editions – Special Publications

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#### **A283-06, 4th edition**

*Qualification Code for Concrete Testing Laboratories* ..... \$120

This standard provides a means of determining a concrete laboratory's capability to test concrete and related materials. It also provides qualification requirements for personnel who test concrete.

This standard addresses the following:

- the requirements for laboratory certification
- the administration of these requirements.

#### **B1800-06, 3rd edition**

*Thermoplastic Nonpressure Piping Compendium*..... \$375

B1800 consists of the following standards:

- **B181.0-06, 1st edition**, *Definitions, General Requirements, and Methods of Testing for Thermoplastic Nonpressure Piping*. This standard covers thermoplastic nonpressure piping, including the following:
  - drain, waste, and vent pipe and pipe fittings
  - sewer and storm pipe and pipe fittings
  - accessories such as factory-assembled expansion joints, closet flanges, backwater valves, and cleanouts.
- **B181.1-06, 8th edition**, *Acrylonitrile-Butadiene-Styrene (ABS)*. This standard specifies requirements for acrylonitrile-butadiene-styrene (ABS) drain, waste, and vent (DWV) pipe, pipe fittings, and accessories such as factory-assembled expansion joints, closet flanges, and backwater valves.
- **B181.2-06, 9th edition**, *Polyvinylchloride (PVC) and Chlorinated Polyvinylchloride (CPVC) Drain, Waste, and Vent Pipe and Pipe Fittings*. This standard specifies requirements for polyvinylchloride (PVC) and chlorinated polyvinylchloride (CPVC) drain, waste, and vent (DWV) pipe, pipe fittings, and accessories such as factory-assembled expansion joints, closet flanges, backwater valves, and fire-stop fittings.
- **B181.3-06, 5th edition**, *Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems*. This standard specifies requirements for compounds, pipe, and fittings used in polyolefin and polyvinylidene fluoride (PVDF) laboratory drainage systems for corrosive applications.
- **B181.5-06, 5th edition**, *Coextruded Acrylonitrile-Butadiene-Styrene/Polyvinylchloride (ABS/PVC) Drain, Waste, and Vent Pipe*. This standard specifies requirements for coextruded thermoplastic drain, waste, and vent (DWV) pipe with an outer layer of acrylonitrile-butadiene-styrene (ABS) and an inner layer of polyvinylchloride (PVC) or with outer and inner layers of ABS and a core of PVC.



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

### B1800-06 (cont'd)

- **B182.1-06, 9th edition, *Plastic Drain and Sewer Pipe and Pipe Fittings*.** This standard specifies requirements for the following:
  - plastic drain and sewer pipe and plastic pipe fittings with pipe stiffness of 275, 320, or 625 kPa, including both single-wall, coextruded, and coextruded dual-wall pipe with a smooth interior
  - single-wall, non-corrugated, perforated plastic pipe with a smooth interior, corrugated exterior, and a pipe stiffness of 200 kPa
  - coextruded dual-wall perforated plastic pipe with a smooth interior, corrugated exterior, and a pipe stiffness of 200 kPa
  - solvent cement.
- **B182.2-06, 6th edition, *PSM Type Polyvinylchloride (PVC) Sewer Pipe and Fittings*.** This standard specifies requirements for SDR 28, 35, and 41 PSM type polyvinylchloride (PVC) sewer pipe and fittings.
- **B182.4-06, 7th edition, *Profile Polyvinylchloride (PVC) Sewer Pipe and Fittings*.** This standard specifies requirements for polyvinylchloride (PVC) profile sewer pipe and fittings of pipe stiffness 70 and 320 (PS70 and PS320), based on controlled inside diameter.
- **B182.6-06, 4th edition, *Profile Polyethylene (PE) Sewer Pipe and Fittings for Leak-Proof Sewer Applications*.** This standard specifies requirements for profile polyethylene (PE) sewer pipe and fittings for leak-proof applications (e.g., sanitary sewer and other gravity-flow applications).
- **B182.7-06, 4th edition, *PSM Type Multilayer Polyvinylchloride (PVC) Sewer Pipe Having Reprocessed-Recycled Content*.** This standard specifies requirements for SDR 28, 35, and 41 PSM type multilayer polyvinylchloride (PVC) sewer pipe having reprocessed-recycled content.
- **B182.8-06, 2nd edition, *Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings*.** This standard specifies requirements for profile polyethylene (PE) storm sewer and drainage pipe and fittings for gasketed and non-gasketed, leak-proof applications. Profile wall pipe includes both open and closed profile with smooth interiors, and sizes based on controlled inside diameter. Open profile pipe is of an annular construction. Closed profile pipe may be of an annular or helical construction.
- **B182.11-06, 5th edition, *Standard Practice for the Installation of Thermoplastic Drain, Storm, and Sewer Pipe and Fittings*.** This standard specifies requirements for the installation and testing of the installation of thermoplastic pipe used for the conveyance of drain, storm, and sanitary effluent in gravity-flow systems.



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

### **CAN/CSA-S6-06, 10th edition**

*Canadian Highway Bridge Design Code*..... \$160

This code applies to the design, evaluation, and structural rehabilitation design of fixed and movable highway bridges in Canada. There is no limit on span length, but this code does not necessarily cover all aspects of design for every type of long-span bridge. This code also covers the design of pedestrian bridges, retaining walls, barriers, and highway accessory supports of a structural nature; e.g., lighting poles and sign support structures.

This code is not intended to apply to public utility structures or to bridges used solely for railway or rail transit purposes.

This code also does not specify requirements related to coastal effects (e.g., exposure to sea action and icebergs) or to mountainous terrain effects (e.g., avalanches). For structures that can be subject to such effects, specialists need to be retained to review and advise on the design and to ensure that the applicable requirements of other codes are met.

For bridges not entirely within the scope of this code, the requirements of this code apply only when appropriate. Necessary additional or alternative design criteria are subject to approval.

### **S6.1-06, 3rd edition**

*Commentary on CAN/CSA-S6-06, "Canadian Highway Bridge Design Code"*..... \$135

This document provides practical guidance for using CSA's standard, CAN/CSA-S6-06, *Canadian Highway Bridge Design Code*. The clause-by-clause commentary includes background and rationale for the S6 requirements, along with advice for implementing them.

### **W117.2-06, 5th edition**

*Safety in Welding, Cutting, and Allied Processes*..... \$40

This standard provides minimum requirements and recommendations to protect people who work in an environment affected by welding, cutting, and allied processes from illness and injury, and to prevent damage to property arising from the installation, operation, and maintenance of equipment used in these processes.

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

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### **B70-06, 10<sup>e</sup> édition**

*Tuyaux et raccords d'évacuation d'eaux usées en fonte et méthodes de raccordement*..... 100 \$

Cette norme vise les tuyaux et les raccords d'évacuation d'eaux usées en fonte et les méthodes de raccordement, conçus pour être installés dans un réseau de plomberie à écoulement gravitaire à l'intérieur et à l'extérieur des bâtiments, au-dessus et sous le niveau du sol.



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

### **CAN/CSA-S6-06, 10<sup>e</sup> édition**

*Code canadien sur le calcul des ponts routiers*..... 160 \$

Ce Code s'applique à la conception, à l'évaluation et à la réfection structurale des ponts routiers fixes et mobiles au Canada. Aucune limite n'est indiquée quant à la longueur des portées, mais le Code ne vise pas nécessairement tous les aspects de la conception de tous les types de ponts à longue portée. Il vise également la conception des passerelles piétonnières, des murs de soutènement, des dispositifs de retenue et des accessoires routiers de nature structurale comme les lampadaires et les structures de support des panneaux de signalisation.

Ce Code ne s'applique pas aux structures des services publics ni aux ponts utilisés à des fins de transport par service ferroviaire régulier ou trains de banlieue.

Il ne précise pas non plus les exigences relatives aux effets côtiers, comme l'exposition à l'action des vagues et aux icebergs, ni aux conditions en terrain montagneux élevé, comme l'effet des avalanches. On doit retenir les services de spécialistes pour agir comme conseillers ou vérificateurs de la conception des structures qui pourraient être soumises à de tels effets. En outre, ces spécialistes doivent s'assurer que toutes les exigences des codes pertinents ont été satisfaites.

Dans le cas de ponts qui ne correspondent pas entièrement aux critères du domaine d'application, ce Code s'applique uniquement lorsqu'il convient. Tout critère de conception supplémentaire ou de rechange qui est nécessaire doit être soumis pour approbation.

### **W48-06, 2<sup>e</sup> édition**

*Métaux d'apport et matériaux associés pour le soudage à l'arc* ..... 130 \$

Cette norme énonce les caractéristiques de classe et de certification des électrodes ou fils-électrodes suivants :

- électrodes enrobées en acier au carbone pour le soudage à l'arc avec électrode enrobée (procédé SMAW)
- électrodes enrobées en acier au chrome et au chrome-nickel pour le procédé SMAW, y compris les électrodes désignées pour le soudage des aciers résistant à la chaleur contenant plus de 11 % de chrome et moins de 50 % de nickel
- électrodes enrobées en acier faiblement allié pour le procédé SMAW
- fils-électrodes et dépôts pour le soudage à l'arc sous gaz avec fil plein (procédé GMAW) des aciers non alliés et à grains fins, conformément à l'article 1.2
- électrodes en acier au carbone pour le soudage à l'arc avec fil fourré (procédé FCAW) et pour le soudage à l'arc avec fil fourré de poudre métallique (procédé MCAW)
- flux et électrodes en acier au carbone pleines pour le soudage à l'arc submergé (procédé SAW)
- flux et électrodes composites en acier au carbone pour le procédé SAW.

Les fils-électrodes et les dépôts pour le soudage des aciers non alliés et à grains fins selon le procédé GMAW sont classés et certifiés dans cette norme selon les classes et désignations de la CAN/CSA-ISO 14341.



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

### W48-06 (suite)

Les métaux d'apport et les matériaux associés visés par cette norme sont classés conformément à un ou plusieurs des critères suivants :

- la composition chimique
- les caractéristiques d'utilisation
- le type d'enrobage (pour les électrodes enrobées)
- l'hydrogène diffusible dans le métal fondu (classes à hydrogène contrôlé)
- les propriétés mécaniques du métal fondu (y compris la condition de traitement thermique)
- les positions de soudage pour lesquelles les électrodes sont prévues.

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### Amendments

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

*Connectors for Masonry*

Revision of Figure B.1.

#### **CAN/CSA-A371-04**

*Masonry Construction for Buildings*

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

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### Modifications publiées en français

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

*Connecteurs pour la maçonnerie*

Des modifications ont été apportées à la figure B.1.

#### **CAN/CSA-A371-04**

*Maçonnerie des bâtiments*

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.

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### Withdrawn Standards

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#### **CAN3-A450.1-M86 (R2001)**

*Ceramic Wall Tile Adhesives (Organic)*

#### **CAN3-A451.1-M86 (R2001)**

*Polystyrene Insulation Adhesives*



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

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### **Certification Notices**

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

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
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
May 1, 2007	Publication of Update No. 2 to CSA standard B127.1-99, <i>Asbestos Cement Drain Waste and Vent Pipe and Pipe Fittings.</i>	Plumbing Products No. 168

## **Completed Projects / Projets terminés**

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

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#### **CAN/CSA-E61131-2:06, 1st edition**

*Programmable controllers — Part 2: Equipment requirements and tests*

(Adopted IEC 61131-2:2003, second edition, including Corrigendum 1:2004,

with Canadian deviations) ..... \$260

This standard specifies requirements and related tests for programmable controllers (PLC) and their associated peripherals (for example, programming and debugging tools [PADTs], human-machine interfaces [HMIs], etc.) that have as their intended use the control and command of machines and industrial processes.

This standard applies to the safety of such equipment designed to be installed and used in accordance with the *Canadian Electrical Code, Part I*.

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

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#### **C22.2 n° 227.1-06, 10<sup>e</sup> édition**

*Tubes électriques non métalliques* ..... 205 \$

Cette norme s'applique aux tubes électriques non métalliques ondulés (TEN), ainsi qu'à leurs raccords fixés mécaniquement, destinés à être utilisés conformément à la C22.1, *Code canadien de l'électricité, Première partie (CCE)*, et à la NFPA 70, *National Electrical Code (NEC)*. Ces exigences visent également les raccords fixés mécaniquement intégrés à une boîte de sortie.

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### **Amendments**

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#### **C22.2 No. 140.2-96 (R2006)**

*Hermetic Refrigerant Motor-Compressors*

Revision of the title page and Clause 34.3.

#### **C22.2 No. 210-05**

*Appliance Wiring Material Products*

Revision of the contents, Clauses 4.1.19, 5.3, 7.6.11.1, 7.7.3.3, 8.7, 9.5.10, and 10.1, and Tables 6, 8, 17, 18, and A.1. Deletion of Clause 8.7.4.

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### **Modifications publiées en français**

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#### **C22.2 n° 140.2-96 (C2006)**

*Compresseurs frigorifiques hermétiques*

Des modifications ont été apportées à la page titre et à l'article 34.3.



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## Reaffirmed Standards

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**C22.2 No. 0.15-01 (R2006)**

*Adhesive Labels*

**CAN/CSA-C22.2 No. 71.2-M89 (R2006)**

*Electric Bench Tools*

**CAN/CSA-C22.2 No. 218.1-M89 (R2006)**

*Spas, Hot Tubs, and Associated Equipment*

**C57-98 (R2006)**

*Electric Power Connectors for Use in Overhead Line Conductors*

**CAN/CSA-CEI/IEC CISPR 22:02 (R2006)**

*Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement* (Adopted CEI/IEC CISPR 22:1997, third edition, with Canadian deviations)

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## Under Development

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### Notice of Intent

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For more information about the proposed development of the following new projects, contact Annie Pereira at 416-747-4094 or [annie.pereira@csa.ca](mailto:annie.pereira@csa.ca):

- **C22.2 No. 35, 4th edition**  
*Extra-Low-Voltage Control Circuit Cables, Low-Energy Control Cable, and Extra-Low-Voltage Control Cable*
- **C22.2 No. 48, 4th edition**  
*Nonmetallic Sheathed Cable*
- **C22.2 No. 153, 2nd edition**  
*Electrical Quick-Connect Terminals*
- **C22.2 No. 239, 3rd edition**  
*Control and Instrumentation Cable*
- **C22.2 No. 60745-1, 3rd edition**  
*Hand-held motor-operated electric tools — Safety — Part 1: General requirements* (Proposed adoption of IEC 60745-1:2006, fourth edition)
- **E60335-2-79, 1st edition**  
*Household and similar electrical appliances — Safety — Part 2-79: Particular requirements for high pressure cleaners and steam cleaners* (Proposed adoption of IEC 60335-2-79:2005, edition 2.1)



## Notice of Intent (cont'd)

- **E61730-1, 1st edition**

*Photovoltaic (PV) module safety qualification — Part 1: Requirements for construction*  
(Proposed adoption of IEC 61730-1:2004, first edition)

- **E61730-2, 1st edition**

*Photovoltaic (PV) module safety qualification — Part 2: Requirements for testing*  
(Proposed adoption of IEC 61730-2:2004, first edition)

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## Drafts for Public Review

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**Please note:** Public comments about draft standards, proposed amendments, proposed adoptions, and proposed endorsements listed in this issue are due by February 20, 2007.

### *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. 51-95**

*Armoured Cables*

Revision of Clauses 3.1.7, 4.1.2, and 5.5.2.1.

- **C22.2 No. 123-96**

*Aluminum Sheathed Cable*

Revision of various clauses.

### *Proposed Adoptions*

For more information about the proposed adoption of the following IEC standards, contact Annie Pereira at 416-747-4094 or [annie.pereira@csa.ca](mailto:annie.pereira@csa.ca):

- **IEC 60335-1-am1:2004**

*Household and similar electrical appliances — Safety — Part 1: General requirements*  
(To be published as CAN/CSA-E60335-1/4EA)

- **IEC 60335-1-am2:2006**

*Household and similar electrical appliances — Safety — Part 1: General requirements*  
(To be published as CAN/CSA-E60335-1/4EB)



## Certification and Testing (CSA International)

### Informs Notices

Date	Subject	Title
October 31, 2006	Publication of Technical Information Letter No. N-33, providing interim certification requirements for sprayers/high pressure washers with wheels.	Motor-Operated Appliances No. 9
November 3, 2006	Publication of Update No. 1 to CSA standard C22.2 No. 38-05, <i>Thermoset-Insulated Wires and Cables</i> . (Supersedes Wire and Cable No. 123, dated April 20, 2006.)	Wire and Cable No. 123A
November 20, 2006	Publication of Update No. 2 to CSA standard C22.2 No. 104-01, <i>Humidifiers</i> .	Humidifiers No. 3
November 30, 2006	Publication of Update No. 2 to CSA standard C22.2 No. 188-04, <i>Splicing Wire Connectors</i> .	Wiring Devices No. 45
December 18, 2006	Revised conformity testing program for <i>U1a</i> , <i>C1a</i> , and <i>U2</i> ratings and revised factory dielectric strength test procedure for protectors with <i>U1a</i> , <i>C1a</i> and <i>U3</i> ratings. This notice supplements Certification Notice <i>Power Distribution Equipment No. 1</i> .	Power Distribution Equipment No. 1A

### Certification Notices

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

Effective Date	Subject	Title
December 31, 2006	Publication of Amendment 1:2006 to CSA standard CAN/CSA-C22.2 No. 60065:03, <i>Audio, video and similar electronic apparatus — Safety requirements</i> .	Audio and Video Equipment No. 20
March 26, 2007	Publication of the ninth edition of UL 197, <i>Commercial Electric Cooking Appliances</i> .	Appliances No. 6B
March 30, 2007	Publication of Technical Information Letter No. A-32, providing interim certification requirements for outdoor portable multiple-receptacle extension boxes.	Wiring Devices No. 41
June 1, 2007	Publication of CSA standard C22.2 No. 198.2-05, <i>Sealed Wire Connector Systems</i> (tri-national standard with UL486D and NMX-J-519-ANCE-05).	Wiring Devices No. 43

**Certification Notices (cont'd)**

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
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-C22.2 No. 60745 Part 2-05 standards, covering concrete vibrators, strapping tools, band saws, and drain cleaners.	Electrical Tools No. 16
June 29, 2007	Publication of CSA standard C22.2 No. 227.1-06, <i>Electrical Nonmetallic Tubing</i> .	Conduit No. 17
August 1, 2007	Publication of CSA standard C22.2 No. 182.1-02, <i>Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type</i> (bi-national standard with UL 1682).	Wiring Devices No. 44
August 14, 2007	Publication of Technical Information Letter No. H-18A, covering interim certification requirements for burner controls incorporating programmable logic. These requirements supplement those of CSA standards C22.2 No. 199, <i>Combustion Safety Controls and Solid-State Igniters for Gas- and Oil-Burning Equipment</i> , and C22.2 No. 0.8, <i>Safety Functions Incorporating Electronic Technology</i> .	Signal Sensing and Controls No. 4
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
January 4, 2008	Publication of Technical Information Letter No. J-36, providing interim test and marking requirements for electrical wires and cables intended for use where exposed to direct sunlight, where requirements presently do not exist in the product standard.	Wire and Cable No. 126
June 30, 2008	Publication of CSA standard C22.2 No. 49-06, <i>Flexible Cords and Cables</i> .	Wire and Cable No. 128
August 1, 2008	Publication of Amendment 1 to CSA standard CAN/CSA-E61347-2-3:03, <i>Lamp controlgear — Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps</i> (Adopted CEI/IEC 61347-2-3:2000, first edition, 2000-10, with Canadian deviations).	Lighting Products No. 48



### 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

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### New Standards – New Editions – Special Publications

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#### **C746-06, 3rd edition**

*Performance Standard for Rating Large and Single-Packaged Vertical Air Conditioners and Heat Pumps*..... \$100

The purpose of this standard is to establish the following for large and single-packaged vertical air conditioners and heat pumps:

- definitions
- classifications
- test requirements
- rating requirements
- minimum data requirements for published ratings
- operating requirements
- marking and nameplate data
- conformance conditions
- minimum efficiency levels.

#### **C861-06, 2nd edition**

*Performance of Self-Ballasted Compact Fluorescent Lamps and Ballasted Adapters* ..... \$100

This standard specifies performance requirements and related test procedures for evaluating self-ballasted compact fluorescent lamps (CFLs) and ballasted adapters that are intended for general lighting use with 120 V, 60 Hz power and that use an E26 or larger screwbase.

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### Amendments

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#### **CAN/CSA-C656-05**

*Performance Standard for Split-System and Single-Package Central Air Conditioners and Heat Pumps*

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

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### Modifications publiées en français

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#### **CAN/CSA-C656-05**

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

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.



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## Reaffirmed Standards

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### **CAN/CSA-C860-01 (R2006)**

*Performance of Internally Lighted Exit Signs*

## ***Under Development***

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### **Drafts for Public Review**

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Please note: Public comments about draft standards, proposed amendments, proposed adoptions, and proposed endorsements listed in this issue are due by February 20, 2007.

### ***Proposed Amendments***

To receive copies of the following proposed amendment, or to offer comments, contact Ted Shin at 416-747-2642 or [ted.shin@csa.ca](mailto:ted.shin@csa.ca):

- **N286-05**

*Management System Requirements for Nuclear Power Plants*

Revision of various clauses.



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

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#### **Amendments**

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##### **CAN/CSA-Z107.56-06**

*Procedures for the Measurement of Occupational Noise Exposure*

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

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#### **Modifications publiées en français**

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##### **CAN/CSA-Z107.56-06**

*Méthodes de mesure de l'exposition au bruit en milieu de travail*

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

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

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### **Amendments**

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#### **CAN/CSA-P.4.1-02 (R2006)**

*Testing Method for Measuring Annual Fireplace Efficiency*

Revision of Clauses 6.13.2, 6.16.1, and 6.16.2.

#### **ANSI Z21.58B-2006/CSA 1.6B-2006**

*Addenda B to "Outdoor Cooking Gas Appliances" .....* \$90

This document provides revisions to ANSI Z21.58-2005/CSA 1.6-2005 and ANSI Z21.58a-2006/CSA 1.6a-2006.

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### **Modifications publiées en français**

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#### **CAN/CSA-P.4.1-02 (C2006)**

*Méthode d'essai pour mesurer l'efficacité annuelle des foyers*

Des modifications ont été apportées aux articles 6.16.1 et 6.16.2.

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### **Reaffirmed Standards**

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#### **B109-01 (R2006)**

*Natural Gas for Vehicles Installation Code*

#### **CAN/CSA-P.4.1-02 (R2006)**

*Testing Method for Measuring Annual Fireplace Efficiency*

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### **Informs Notices**

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<b>Date</b>	<b>Subject</b>	<b>Title</b>
October 31, 2006	Clarification of effective dates stated in Gas Products No. 103, for power-vented 30, 40 and 50 gallon water heaters for compliance with the Resistance to Flammable Vapor Ignition and Resistance to Lint, Dust and Oil Accumulation tests in ANSI Z21.10.1-2004/CSA 4.1-2004, <i>Gas Water Heaters, Volume I Storage Water Heaters with Input Ratings of 75,000 Btu per Hour or Less.</i>	Gas Products No. 111



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**Certification Notices**

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

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
May 1, 2007	Publication of ANSI Z21.58a-2006/ CSA 1.6a-2006, <i>Outdoor Cooking Gas Appliances</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.58-2005/ CSA 1.6-2005.	Gas Products No. 96
May 1, 2007	Publication of ANSI Z21.47b-2006/ CSA 2.3b-2006, <i>Gas-Fired Central Furnaces</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.47-2003/ CSA 2.3-2003 and Z21.47a-2004/CSA 2.3a-2004.	Gas Products No. 102
July 1, 2007	Publication of ANSI Z21.10.1b-2006/ CSA 4.1b-2006, <i>Gas Water Heaters — Volume I, Storage Water Heaters with Input Rates of 75,000 Btu per Hour or Less</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.10.1-2004/CSA 4.1-2004 and ANSI Z21.10.1a-2006/CSA 4.1a-2006.	Gas Products No. 106
July 1, 2007	Publication of addenda ANSI Z21.89a-2006/ CSA 1.18a-2006, <i>Outdoor Cooking Specialty Gas Appliances</i> . The revisions in this addenda supersede any corresponding provisions of ANSI Z21.89-2005/ CSA 1.18-2005.	Gas Products No. 107



## **Completed Projects / Projets terminés**

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

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#### **CAN/CSA-ISO/TR 17119:06, 1st edition**

*Health informatics — Health informatics profiling framework*

(Adopted ISO/TR 17119:2005, first edition, without modification)..... \$115

This standard provides a common description framework for health informatics standard artefacts. The aim of the health informatics profiling framework (HIPF) is to provide a consistent method for describing and classifying artefacts within the domain of health informatics standards.

The HIPF establishes common concepts and a vocabulary for describing the complex domain of various health informatics standards initiatives and their supporting artefacts. The use of the HIPF should promote the reuse of health informatics knowledge and improve the identification of opportunities for health informatics standards alignment, collaboration and coordination.

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

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### **Amendments**

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#### **Z432-04**

*Safeguarding of Machinery*

Revision of the Technical Committee list, Clauses 3 and 9.3.3(b), and Tables 4 and A.1.

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### **Modifications publiées en français**

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#### **Z432-04**

*Protection des machines*

Des modifications ont été apportées Comité technique, à l'article 9.3.3 b) et aux tableaux 4 et A.1.

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### **Reaffirmed Standards**

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#### **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)

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

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



## Reaffirmed Standards (cont'd)

### **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: Test for local effects after implantation*  
(Adopted ISO 10993-6:1994, first edition, without modification)

### **CAN/CSA-M789.3-97 (R2006)**

*Agricultural tractors — Test procedures — Part 3: Turning and clearance diameters*  
(Adopted ISO 789-3:1993, second edition, without modification)

### **CAN/CSA-M789.6-97 (R2006)**

*Agricultural tractors — Test procedures — Part 6: Centre of gravity*  
(Adopted ISO 789/6-1982, first edition, including Amendment 1:1996, without modification)

### **CAN/CSA-M789.11-97 (R2006)**

*Agricultural tractors — Test procedures — Part 11: Steering capability of wheeled tractors*  
(Adopted ISO 789-11:1996, first edition, without modification)

### **CAN/CSA-M5131-97 (R2006)**

*Acoustics — Tractors and machinery for agriculture and forestry — Measurement of noise at the operator's position — Survey method* (Adopted ISO 5131:1996, second edition, without modification)

### **CAN/CSA-M10998-97 (R2006)**

*Agricultural wheeled tractors — Steering requirements* (Adopted ISO 10998:1995, second edition, without modification)

### **Z168.3-97 (R2006)**

*Anaesthetic Machines for Medical Use*

### **CAN/CSA-Z168.5.3-97 (R2006)**

*Neonatal Ventilators*

### **CAN/CSA-Z168.5.6-96 (R2006)**

*Expired Air Pulmonary Resuscitators*

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## Withdrawn Standards

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### **CAN/CSA-ISO 5841.1-97 (R2001)**

*Cardiac pacemakers — Part 1: Implantable pacemakers* (Adopted ISO 5841-1:1989, second edition, without modification)

## Under Development

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### Notice of Intent

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For more information about the proposed development of the following new project, contact Ian Brodie at 416-747-2670 or [ian.brodie@csa.ca](mailto:ian.brodie@csa.ca):

- **B659, 2nd edition**  
*Design for Aging*

For more information about the proposed development of the following new projects, contact Annie Pereira at 416-747-4094 or [annie.pereira@csa.ca](mailto:annie.pereira@csa.ca):

- **C22.2 No. 60601-1, 2nd edition**  
*Medical electrical equipment — Part 1: General requirements*  
(Proposed adoption of IEC 60601-1:2005, third edition)
- **C22.2 No. 60601-2-2, 2nd edition**  
*Medical electrical equipment — Part 2-2: Particular requirements for the safety of high frequency surgical equipment* (Proposed adoption of IEC 60601-2-2:2006, fourth edition)

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

- **ISO 9241-1:1997/AMD 1:2001**  
*Amendment 1:2001 to ISO 9241-1:1997, “Ergonomic requirements for office work with visual display terminals (VDTs) — Part 1: General introduction”*
- **ISO 9241-3:1992/AMD 1:2000**  
*Amendment 1:2000 to ISO 9241-3:1992, “Ergonomic requirements for office work with visual display terminals (VDTs) — Part 3: Visual display requirements”*
- **ISO 9241-4:1998/COR 1:2000**  
*Corrigendum 1:2000 to ISO 9241-4:1998, “Ergonomic requirements for office work with visual display terminals (VDTs) — Part 4: Keyboard requirements”*
- **M789.10, 2nd edition**  
*Agricultural tractors — Test procedures — Part 10: Hydraulic power at tractor/ implement interface* (proposed adoption of ISO/OECD 789.10:2006, first edition)
- **M4254.1, 2nd edition**  
*Agricultural machinery — Safety — Part 1: General requirements*  
(proposed adoption of ISO 4254.1:2005, 3rd edition)



## Notice of Intent (cont'd)

For more information about the proposed development of the following new project, contact Rita Mezei at 416-747-4109 or rita.mezei@csa.ca:

- **ISO 22870:2006, 1st edition**

*Point-of-care testing (POCT) — Requirements for quality and competence*

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

- **PLUS 14971, 2nd edition**

*The 14971 Essentials — A Practical Handbook for Implementing the ISO 14971 Standards for Medical devices*

For more information about the proposed development of the following new project, contact Ron Meyers at 416-747-2496 or ron.meyers@csa.ca:

- **Z1600, 1st edition**

*Emergency Management and Business Continuity*

For more information about the proposed development of the following new projects, contact Cathryn Cortissoz at 416-747-2594 or cathryn.cortissoz@csa.ca:

- **Z5356-1, 1st edition**

*Anaesthetic and respiratory equipment — Conical connectors — Part 1: Cones and sockets* (proposed adoption of ISO 5356-1:2004, third edition)

- **Z5356-2, 1st edition**

*Anaesthetic and respiratory equipment — Conical connectors — Part 2: Screw-threaded weight-bearing connectors* (proposed adoption of ISO 5356-2:2006, second edition)

- **Z10651-4, 1st edition**

*Lung ventilators — Part 4: Particular requirements for operator-powered resuscitators* (proposed adoption of ISO 10651-4:2002, first edition)

- **Z10651-5, 1st edition**

*Lung ventilators for medical use — Particular requirements for basic safety and essential performance — Part 5: Gas-powered emergency resuscitators* (proposed adoption of ISO 10651-5:2006, first edition)

- **Z18777, 1st edition**

*Transportable liquid oxygen systems for medical use — Particular requirements* (proposed adoption of ISO 18777:2005, first edition)

- **Z18778, 1st edition**

*Respiratory equipment — Infant monitors — Particular requirements* (proposed adoption of ISO 18778:2005, first edition)

- **Z18779, 1st edition**

*Medical devices for conserving oxygen and oxygen mixtures — Particular requirements* (proposed adoption of ISO 18779:2005, first edition)

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## Proposed Withdrawals

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For more information about the proposed withdrawal of the following standard, contact Cathryn Cortissoz at 416-747-2594 or [cathryn.cortissoz@csa.ca](mailto:cathryn.cortissoz@csa.ca):

- **CAN/CSA-Z168.5.1-97 (R2001)**  
*Anaesthesia Ventilators*

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

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### Certification Notices

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

<b>Effective Date</b>	<b>Subject</b>	<b>Title</b>
June 1, 2007	Publication of CSA standard Z259.10-06, <i>Full Body Harnesses.</i>	Occupational Health & Safety Products No. 47
July 1, 2007	Publication of Update No. 4 to CSA standard Z259.2.1-98, <i>Fall Arresters, Vertical Lifelines and Rails.</i>	Occupational Health & Safety Products No. 48



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

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

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**CAN/CSA-ISO 10014:06, 1st edition**

*Quality management — Guidelines for realizing financial and economic benefits*

(Adopted ISO 10014:2006, first edition, without modification) ..... \$110

This standard provides guidelines for realizing financial and economic benefits from the application of the ISO 9000 quality management principles.

This standard is directed to top management of an organization and complements ISO 9004 for performance improvements. It provides examples of achievable benefits and identifies management methods and tools that are available to assist with the achievement of those benefits.



## Contact Information

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