



INFO UPDATE

Construction Products and Materials

Volume 6 — August/September 2009

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 It contains important information about new and existing standards, e.g., recently published standards, and withdrawn standards.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

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Completed Projects / Projets terminés

New Standards – New Editions – Special Publications

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

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

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

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

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

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

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

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

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

Paper.....	\$95
PDF.....	\$85

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

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

A440S1-09, 2nd edition

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

Paper.....	TBA
PDF.....	\$70

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



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

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

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

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

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

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

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

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

G30.18-09, 2nd edition

Carbon Steel Bars for Concrete Reinforcement

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

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

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

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

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

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

S16-09, 7th edition

Design of Steel Structures

Paper.....	TBA
PDF	\$160

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

S367-09, 2nd edition

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

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

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

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

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

Z240 MH Series-09, 3rd edition

Manufactured Homes

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

This series consists of the following standards:

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



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

Z240 MH Series-09 (cont'd)

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

Nouvelles normes – Nouvelles éditions – Publications spéciales publiées en français

W55.3-08, 2^e édition

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

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

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

Cette norme énonce les exigences visant

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



Amendments

CAN/CSA-A23.3-04

Design of Concrete Structures

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

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

Ceramic Plumbing Fixtures

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

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

Stainless Steel Plumbing Fixtures

Revision of Clause 1.2.

A231.1-06/A231.2-06

Precast Concrete Paving Slabs / Precast Concrete Pavers

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

A3000-08

Cementitious Materials Compendium

The following revisions have been made to this compendium:

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

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

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

The following revisions have been made to this document:

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

CAN/CSA-S806-02 (R2007)

Design and Construction of Building Components with Fibre-Reinforced Polymers

Revision of Clauses 8.4.5.2 and 10.6.2.3, and Table 14.



Amendments (cont'd)

Z240 RV Series-08

Recreational Vehicles

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

Modifications publiées en français

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

Appareils sanitaires en céramique

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

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

Appareils sanitaires en acier inoxydable

Des modifications ont été apportées à l'article 1.2.

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

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

Des modifications ont été apportées aux tableaux 4 et 27.

S157-05/S157.1-05

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

Les modifications suivantes ont été effectuées dans ce document :

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

CAN/CSA-S806-02 (C2007)

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

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

W178.2-08

Qualification des inspecteurs en soudage

Des modifications ont été apportées à l'article 9.3.

Z240 VC Série-08

Véhicules de camping

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

Reaffirmed Standards

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

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

Formal Interpretations

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

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

Answer: No.

Certification and Testing (CSA International)

Certification Notices

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

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