

# **National Plumbing Code of Canada 1995**

## **Second Revisions and Errata**

**Issued by the Canadian Commission on  
Building and Fire Codes**

**March 2002**

The attached pages identify second revisions and errata to the National Plumbing Code of Canada 1995.

The revisions have been approved by the Canadian Commission on Building and Fire Codes. The revisions contained herein include updates from 01 September 1999 to 31 October 2001.

The errata are corrections that have been identified and are included to facilitate the use of the Code.

Second revisions are identified by an **r2** in the margin; second errata are identified by an **e2**.

Where changes to the document number and/or title have been made in Tables 1.9.3. and A-1.9.3., the Code Reference column of those tables directs the user to the relevant provisions of the Code where standards information should be updated.

General updates, such as new addresses, as well as minor changes resulting from improvements in publishing techniques, are listed in the attached pages for information purposes only.



**Second Revisions and Errata — National Plumbing Code of Canada 1995**

<b>e2/r2</b>	<b>Code Reference</b>	<b>Change</b>
<b>e2</b>	1.1.2.(1)	Replace the reference to “National Building Code 1995” with “National Building Code 1985.”
update	1.3.3.(1)	In the Abbreviations of Proper Names, make the following changes: AES                    Atmospheric Environment Service [now MSC – Meteorological Services Canada] ANSI                    American National Standards Institute (25 West 43 <sup>rd</sup> Street, 4 <sup>th</sup> Floor, New York, New York 10036 U.S.A.) ASPE                    American Society of Plumbing Engineers (8614 Catalpa Avenue, Suite 1007, Chicago, Illinois 60656-1116 U.S.A.) ASTM                    Zip Code now 19428-2959 CSA                      City name now Toronto NFPA                     Zip Code now 02269-9101 ULC                      City name now Toronto
<b>r2</b>	1.9.2.(1)	Sentence (1) revised as follows (change to effective date): <b>r2    1.9.2. Amendments, Revisions and Supplements</b> <b>1)</b> Unless otherwise specified herein, the documents referenced in this Code shall include all amendments, revisions and supplements effective to 31 October 2001.
<b>r2</b>	Table 1.9.3.	Replace Table 1.9.3. with the following table:

## 1.7.2.

### 1.7.2. Accessibility

1) Every *fixture*, appliance, *interceptor*, *cleanout*, valve, device or piece of equipment shall be so located that it is readily accessible for use, cleaning and maintenance.

## 1.8. Plumbing Drawings and Related Documents

### 1.8.1. Contents

- 1) Plumbing drawings and related documents submitted with the application for a plumbing permit shall show
- the location and *size* of every *building drain* and of every *trap* and *cleanout* fitting that is on a *building drain*,
  - the *size* and location of every *soil-or-waste pipe*, *trap* and *vent pipe*, and
  - a layout of the *potable water distribution system*, including pipe *sizes* and valves.

## 1.9. Referenced Documents

### 1.9.1. Conflict between Code and Referenced Documents

1) In case of conflict between the provisions of this Code and those of a referenced document, the provisions of this Code shall govern.

### 1.9.2. Amendments, Revisions and Supplements

1) Unless otherwise specified herein, the documents referenced in this Code shall include all amendments, revisions and supplements effective to 31 October 2001. **r r2**

### 1.9.3. Designated Editions

1) Where standards are referenced in this Code, they shall be the editions designated in Table 1.9.3.

**Table 1.9.3.**  
Documents Referenced in the National Plumbing Code of Canada 1995  
Forming Part of Article 1.9.3.

Issuing Agency	Document Number	Title of Document	Code Reference
ANSI/ASME	B16.3-1992	Malleable-Iron Threaded Fittings, Classes 150 and 300	2.6.6.(1)
ANSI/ASME	B16.4-1992	Cast-Iron Threaded Fittings, Classes 125 and 250	2.6.5.(1)
ANSI/ASME	B16.12-1991	Cast-Iron Threaded Drainage Fittings	2.6.3.(1)
ANSI/ASME	B16.15-1985	Cast Bronze Threaded Fittings, Classes 125 and 250	2.7.3.(1)
ANSI	B16.18-1984	Cast Copper Alloy Solder-Joint Pressure Fittings	2.7.6.(1) 2.7.6.(2)
ANSI/ASME	B16.22-1995 <b>r</b>	Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings	2.7.6.(1)
ANSI/ASME	B16.24-1991	Cast Copper Alloy Pipe Flanges and Flanged Fittings	2.7.2.(1)
ANSI/ASME	B16.26-1988	Cast Copper Alloy Fittings for Flared Copper Tubes	2.7.7.(1) 2.7.7.(2)
ANSI/ASME	B16.29-1994 <b>r</b>	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings – DWV	2.7.5.(1)
ANSI/AWWA	C104/A21.4-95 <b>r2</b>	Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water	2.6.4.(2)
ANSI/AWWA	C110/A21.10-98 <b>r2</b>	Ductile-Iron and Gray-Iron Fittings, 3 in. Through 48 in., for Water and Other Liquids	2.6.4.(3)
ANSI/AWWA	C111/A21.11-00 <b>r r2</b>	Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings	2.6.4.(4)
ANSI/AWWA	C151/A21.51-96 <b>r</b>	Ductile-Iron Pipe, Centrifugally Cast, for Water	2.6.4.(1)
ASTM	A 53/A 53M-99b <b>r r2</b>	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless	2.6.7.(4)
ASTM	A 518/A 518M-99 <b>e r2</b>	Corrosion-Resistant High-Silicon Iron Castings	2.8.1.(1)
ASTM	B 32-00 <b>r r2</b>	Solder Metal	2.9.2.(2)
ASTM	B 42-98 <b>r r2</b>	Seamless Copper Pipe, Standard Sizes	2.7.1.(1)

Table 1.9.3. (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
ASTM	B 43-98 <b>r r2</b>	Seamless Red Brass Pipe, Standard Sizes	2.7.1.(2)
ASTM	B 88-99 <b>r r2</b>	Seamless Copper Water Tube	2.7.4.(1)
ASTM	B 306-99 <b>r r2</b>	Copper Drainage Tube (DWV)	2.7.4.(1)
ASTM	C 1053-00 <b>r2</b>	Borosilicate Glass Pipe and Fittings for Drain, Waste, and Vent (DWV) Applications	2.8.1.(1)
ASTM	D 2466-99 <b>r r2</b>	Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40	2.5.7.(2)
ASTM	D 2467-99 <b>r r2</b>	Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80	2.5.7.(2)
ASTM	D 3261-97 <b>r</b>	Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing	2.5.5.(3)
ASTM	F 628-00 <b>r r2</b>	Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core	2.5.10.(1) 2.5.12.(1)
CCBFC	NRCC 38726 <b>e</b>	National Building Code of Canada 1995	1.1.2.(1) 1.3.2.(1) 1.5.1.(1) 1.7.1.(1) 2.5.12.(2) 2.5.12.(3) 2.6.7.(3) 4.10.4.(1) 6.1.3.(5)
CGA	CAN1-4.4-M80	Temperature, Pressure, Temperature and Pressure Relief Valves and Vacuum Relief Valves	2.10.11.(1)
CGSB	CAN/CGSB-34.1-94 <b>r</b>	Asbestos-Cement Pressure Pipe	2.5.2.(1)
CGSB	CAN/CGSB-34.9-94 <b>r</b>	Asbestos-Cement Sewer Pipe	2.5.1.(2)
CGSB	CAN/CGSB-34.22-94 <b>r</b>	Asbestos-Cement Drain Pipe	2.5.1.(1)
CGSB	CAN/CGSB-34.23-94 <b>r</b>	Asbestos-Cement House Connection Sewer Pipe	2.5.1.(2)
CSA	A60.1-M1976	Vitrified Clay Pipe	2.5.4.(1)
CSA	A60.3-M1976	Vitrified Clay Pipe Joints	2.5.4.(2)
CSA	CAN/CSA-A257.1-M92	Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings	2.5.3.(1)
CSA	CAN/CSA-A257.2-M92	Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings	2.5.3.(1)
CSA	CAN/CSA-A257.3-M92	Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections, and Fittings Using Rubber Gaskets	2.5.3.(2)
CSA	CAN/CSA-A257.4-M92	Precast Reinforced Circular Concrete Manhole Sections, Catch Basins, and Fittings	2.5.3.(5)
CSA	B45 Series-99 <b>r2</b>	Plumbing Fixtures	2.2.2.(1)
CSA	B45.1-99 <b>r2</b>	Ceramic Plumbing Fixtures	2.2.2.(2)
CSA	B45.2-99 <b>r2</b>	Enamelled Cast Iron Plumbing Fixtures	2.2.2.(3)
CSA	B45.3-99 <b>r2</b>	Porcelain-Enamelled Steel Plumbing Fixtures	2.2.2.(4)
CSA	B45.4-99 <b>r2</b>	Stainless Steel Plumbing Fixtures	2.2.2.(5)
CSA	B45.5-99 <b>r2</b>	Plastic Plumbing Fixtures	2.2.2.(6)
CSA	B45.10-01 <b>r2</b>	Hydromassage Bathtubs	2.2.2.(7)
CSA	B64.0-01 <b>r2</b>	Definitions, General Requirements, and Test Methods for Vacuum Breakers and Backflow Preventers	2.10.10.(1)
CSA	B64.1.1-01 <b>r2</b>	Vacuum Breakers, Atmospheric Type (AVB)	2.10.10.(1)
CSA	B64.1.2-01 <b>r2</b>	Vacuum Breakers, Pressure Type (PVB)	2.10.10.(1)

### 1.9.3.

Table 1.9.3. (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
CSA	B64.2-01 <b>r2</b>	Vacuum Breakers, Hose Connection Type (HCVB)	2.10.10.(1)
CSA	B64.2.1-01 <b>r2</b>	Vacuum Breakers, Hose Connection Type (HCVB) with Manual Draining Feature	2.10.10.(1)
CSA	B64.2.2-01 <b>r2</b>	Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature	2.10.10.(1)
CSA	B64.3-01 <b>r2</b>	Backflow Preventers, Dual Check Valve Type with Atmospheric Port (DCAP)	2.10.10.(1)
CSA	B64.4-01 <b>r2</b>	Backflow Preventers, Reduced Pressure Principle Type (RP)	2.10.10.(1)
CSA	B64.5-01 <b>r2</b>	Backflow Preventers, Double Check Valve Type (DCVA)	2.10.10.(1)
CSA	B64.6-01 <b>r2</b>	Backflow Preventers, Dual Check Valve Type (DuC)	2.10.10.(1)
CSA	B64.7-01 <b>r2</b>	Vacuum Breakers, Laboratory Faucet Type (LFVB)	2.10.10.(1)
CSA	B64.8-01 <b>r2</b>	Backflow Preventers, Dual Check Valve Type with Intermediate Vent (DuCV)	2.10.10.(1)
CSA	CAN/CSA-B64.10-M88 <b>e</b>	Backflow Prevention Devices – Selection, Installation, Maintenance, and Field Testing	6.2.12.(2)
CSA	B67-1972	Lead Service Pipe, Waste Pipe, Traps, Bends and Accessories	2.7.8.(1) 2.9.2.(1)
CSA	B70-97 <b>r</b>	Cast Iron Soil Pipe, Fittings, and Means of Joining	2.6.1.(1) 4.6.4.(2)
CSA	B125-98 <b>r2</b>	Plumbing Fittings	2.3.3.(1) 2.10.6.(1) 2.10.7.(1) 2.10.7.(2) 2.10.10.(2)
CSA	B127.1-99 <b>r2</b>	Asbestos Cement Drain, Waste and Vent Pipe and Pipe Fittings	2.5.1.(1) 2.6.2.(1)
CSA	B127.2-M1977	Components for Use in Asbestos Cement Building Sewer Systems	2.5.1.(2) 2.6.2.(1)
CSA	B137.1-99 <b>r r2</b>	Polyethylene Pipe, Tubing, and Fittings for Cold-Water Pressure Services	2.5.5.(1)
CSA	B137.2-99 <b>r2</b>	PVC Injection-Moulded Gasketed Fittings for Pressure Applications	2.5.7.(3)
CSA	B137.3-99 <b>r2</b>	Rigid Polyvinyl Chloride (PVC) Pipe for Pressure Applications	2.5.7.(1)
CSA	B137.5-99 <b>r r2</b>	Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications	2.5.6.(1)
CSA	B137.6-99 <b>r r2</b>	CPVC Pipe, Tubing, and Fittings for Hot- and Cold-Water Distribution Systems	2.5.8.(1)
CSA	B137.8-99 <b>r2</b>	Polybutylene (PB) Piping for Pressure Applications	2.5.9.(1)
CSA	B137.9-99 <b>r2</b>	Polyethylene/Aluminum/Polyethylene Composite Pressure-Pipe Systems	2.5.13.(1)
CSA	B137.10-99 <b>r2</b>	Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure-Pipe Systems	2.5.14.(1)
CSA	B137.11-99 <b>r2</b>	Polypropylene (PP-R) Pipe and Fittings for Pressure Applications	2.5.15.(1)
CSA	B158.1-1976	Cast Brass Solder Joint Drainage, Waste and Vent Fittings	2.7.5.(1) 2.10.1.(1)
CSA	B181.1-99 <b>r r2</b>	ABS Drain, Waste, and Vent Pipe and Pipe Fittings	2.5.10.(1) 2.5.11.(1) 2.5.12.(1) 4.6.4.(2)

Table 1.9.3. (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
CSA	B181.2-99 <b>r r2</b>	PVC Drain, Waste, and Vent Pipe and Pipe Fittings	2.5.10.(1) 2.5.11.(1) 2.5.12.(1) 4.6.4.(2)
CSA	B181.3-99 <b>r2</b>	Polyolefin Laboratory Drainage Systems	2.8.1.(1)
CSA	B182.1-99 <b>r r2</b>	Plastic Drain and Sewer Pipe and Pipe Fittings	2.5.10.(1) 4.6.4.(2)
CSA	B182.2-99 <b>r r2</b>	PVC Sewer Pipe and Fittings (PSM Type)	2.5.10.(1)
CSA	B182.4-99 <b>r r2</b>	Profile PVC Sewer Pipe and Fittings	2.5.10.(1)
CSA	B182.6-99 <b>r2</b>	Profile Polyethylene Sewer Pipe and Fittings	2.5.10.(1)
CSA	B242-M1980	Groove and Shoulder Type Mechanical Pipe Couplings	2.10.4.(1)
CSA	B272-93	Prefabricated Self-Sealing Roof Vent Flashings	2.10.14.(2)
CSA	CAN/CSA-B281-M90	Aluminum Drain, Waste, and Vent Pipe and Components	2.7.9.(1)
CSA	B356-00 <b>e r2</b>	Backflow Preventers and Water Pressure Reducing Valves	2.10.12.(1)
CSA	B602-99 <b>r2</b>	Mechanical Couplings for Drain, Waste, and Vent Pipe and Sewer Pipe	2.10.4.(2)
CSA	CAN/CSA-F379.1-88	Solar Domestic Hot Water Systems (Liquid to Liquid Heat Transfer)	2.10.13.(1)
CSA	CAN/CSA-F383-87	Installation Code for Solar Domestic Hot Water Systems	6.1.8.(1)
CSA	G401-93	Corrugated Steel Pipe Products	2.6.8.(1)
NFPA	13-1999 <b>r r2</b>	Installation of Sprinkler Systems	6.2.4.(1)
ULC	CAN4-S114-M80 <b>e</b>	Test for Determination of Non-Combustibility in Building Materials	1.3.2.(1)

**Second Revisions and Errata — National Plumbing Code of Canada 1995**

<b>e2/r2</b>	<b>Code Reference</b>	<b>Change</b>
<b>e2</b>	2.5.12.(3)	Change the reference from “Subsection 3.1.11.” to “Subsection 3.1.9.”
<b>r2</b>	3.4.4.	<p>Replace Article 3.4.4. with the following:</p> <p><b>r2 3.4.4. Support for Vertical Piping</b></p> <p><b>1)</b> Except as provided in Sentence (2), vertical piping shall be supported at its base and at the floor level of alternate <i>storeys</i> by rests, each of which can bear the weight of pipe that is between it and the rest above it.</p> <p><b>2)</b> The maximum spacing of supports shall be 7.5 m.</p>
<b>e2</b>	Table 4.9.3.	<p>Add Table Note “(1)” following Table title.</p> <p>Add Table Note text “See Appendix A.” to the end of the Table.</p>
<b>e2</b>	Table 4.9.3. (Continued)	Under entry for “Sink”, change number for “(b) Other sinks” from ½ to 1 ½.
<b>r2</b>	6.1.7.	<p>Replace Sentences 6.1.7.(2) and (3) with the following and replace Sentence numbers (4) to (9) with numbers (3) to (8):</p> <p><b>r2 2)</b> Every hot water tank of a <i>storage-type service water heater</i> shall be equipped with a temperature relief valve with a temperature-sensing element</p> <ol style="list-style-type: none"> <li>a) located within the top 150 mm of the tank, and</li> <li>b) designed to open and discharge sufficient water from the tank to keep the temperature of the water in the tank from exceeding 99°C under all operating conditions.</li> </ol>
update	Table 6.3.	In subsequent printings of the NPC, Table 6.3. will be numbered Table 6.3.1. due to changes in publishing techniques. All references to this Table throughout the NPC will also change.
update	A-1 Conformity Assessment	In the Certification paragraph, replace the reference to Warnock Hersey Professional Services with Intertek Testing Services NA Ltd. (ITS).
<b>r2</b>	Table A-1.9.3.	Replace Table A-1.9.3. with the following table:

### A-1.9.3.

**A-1.9.3. Referenced Documents.** Documents referenced in this Appendix shall be the editions designated in Table A-1.9.3.

**Table A-1.9.3.  
Documents Referenced in Appendix A of the National Plumbing Code of Canada 1995**

Issuing Agency	Document Number	Title of Document	Code Reference
ANSI/ASME	B16.3-1992 <b>e</b>	Malleable-Iron Threaded Fittings, Classes 150 and 300	Table A-2.5., A-2.6. and A-2.7.
ANSI/ASME	B16.4-1992 <b>e</b>	Cast-Iron Threaded Fittings, Classes 125 and 250	Table A-2.5., A-2.6. and A-2.7.
ANSI/ASME	B16.15-1985 <b>e</b>	Cast Bronze Threaded Fittings, Classes 125 and 250	Table A-2.5., A-2.6. and A-2.7.
ANSI	B16.18-1984	Cast Copper Alloy Solder-Joint Pressure Fittings	Table A-2.5., A-2.6. and A-2.7.
ANSI/ASME	B16.22-1995 <b>r</b>	Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings	Table A-2.5., A-2.6. and A-2.7.
ANSI/ASME	B16.29-1994 <b>r</b>	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings – DWV	Table A-2.5., A-2.6. and A-2.7.
ANSI/AWWA	C151/A21.51-96 <b>r</b>	Ductile-Iron Pipe, Centrifugally Cast, for Water	Table A-2.5., A-2.6. and A-2.7.
ASHRAE		ASHRAE Handbook of HVAC Applications, Chapter 44, Control of Gaseous Indoor Air Contaminants (1999) <b>r2</b>	A-6.1.1.(1)
ASPE		Data Book – Volume 2, Chapter 5, Cold Water Systems (1999) <b>r2</b>	A-6.1.1.(1)
ASPE		Data Book – Volume 2, Chapter 6, Domestic Water Heating Systems Fundamentals (1999) <b>r2</b>	A-6.1.1.(1)
ASPE		Data Book – Volume 1, Chapter 35, Grease Interceptors (1994)	A-4.4.3.(1)
ASTM	A 53/A 53M-99b <b>r r2</b>	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless	Table A-2.5., A-2.6. and A-2.7.
ASTM	B 42-98 <b>r r2</b>	Seamless Copper Pipe, Standard Sizes	Table A-2.5., A-2.6. and A-2.7.
ASTM	B 43-98 <b>r r2</b>	Seamless Red Brass Pipe, Standard Sizes	Table A-2.5., A-2.6. and A-2.7.
ASTM	B 88-99 <b>r r2</b>	Seamless Copper Water Tube	Table A-2.5., A-2.6. and A-2.7.
ASTM	B 306-99 <b>r r2</b>	Copper Drainage Tube (DWV)	Table A-2.5., A-2.6. and A-2.7.
ASTM	D 3138-95 <b>r</b>	Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Non-Pressure Piping Components	A-2.5.10. to 2.5.12.
ASTM	F 628-00 <b>r r2</b>	Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core	Table A-2.5., A-2.6. and A-2.7.
AWWA		AWWA Manual M14, Recommended Practice for Backflow Prevention and Cross-Connection Control, Chapter 6, Second Edition (1990), 7 <sup>th</sup> Printing 2000 <b>r2</b>	A-6.2.4.
CCBFC	NRCC 38726	National Building Code of Canada 1995	Table A-2.5., A-2.6. and A-2.7. A-4.10. A-4.10.4.(1)

**Table A-1.9.3. (Continued)**

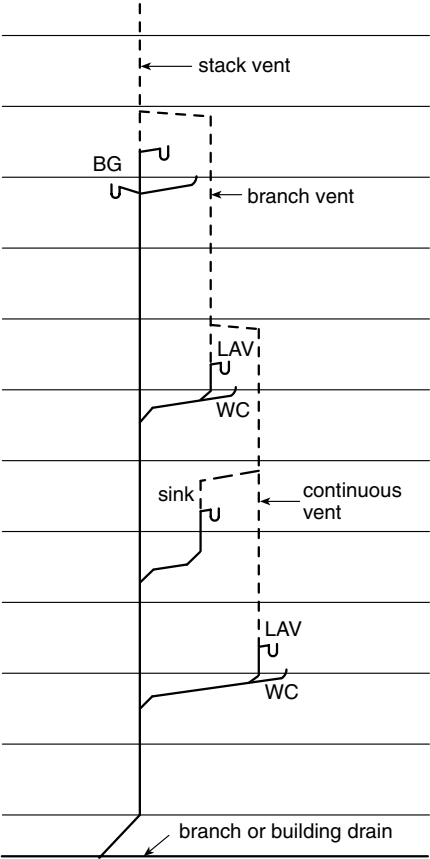
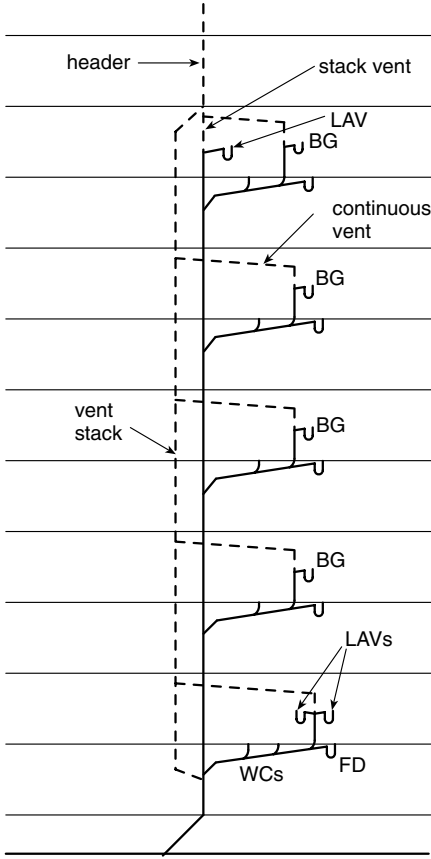
Issuing Agency	Document Number	Title of Document	Code Reference
CGSB	CAN/CGSB-34.1-94 <b>r</b>	Asbestos-Cement Pressure Pipe	Table A-2.5., A-2.6. and A-2.7.
CGSB	CAN/CGSB-34.9-94 <b>r</b>	Asbestos-Cement Sewer Pipe	Table A-2.5., A-2.6. and A-2.7.
CGSB	CAN/CGSB-34.22-94 <b>r</b>	Asbestos-Cement Drain Pipe	Table A-2.5., A-2.6. and A-2.7.
CGSB	CAN/CGSB-34.23-94 <b>r</b>	Asbestos-Cement House Connection Sewer Pipe	Table A-2.5., A-2.6. and A-2.7.
CSA	A60.1-M1976	Vitrified Clay Pipe	Table A-2.5., A-2.6. and A-2.7.
CSA	CAN/CSA-A257.1-M92	Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings	Table A-2.5., A-2.6. and A-2.7.
CSA	CAN/CSA-A257.2-M92	Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings	Table A-2.5., A-2.6. and A-2.7.
CSA	B67-1972	Lead Service Pipe, Waste Pipe, Traps, Bends and Accessories	Table A-2.5., A-2.6. and A-2.7.
CSA	B70-97 <b>r</b>	Cast Iron Soil Pipe, Fittings, and Means of Joining	Table A-2.5., A-2.6. and A-2.7.
CSA	B125-98 <b>r2</b>	Plumbing Fittings	A-6.1.11.
CSA	B127.1-99 <b>r2</b>	Asbestos Cement Drain, Waste and Vent Pipe and Pipe Fittings	Table A-2.5., A-2.6. and A-2.7.
CSA	B127.2-M1977	Components for Use in Asbestos Cement Building Sewer Systems	Table A-2.5., A-2.6. and A-2.7.
CSA	B137.1-99 <b>r r2</b>	Polyethylene Pipe, Tubing, and Fittings for Cold-Water Pressure Services	Table A-2.5., A-2.6. and A-2.7.
CSA	B137.2-99 <b>r2</b>	PVC Injection-Moulded Gasketed Fittings for Pressure Applications	Table A-2.5., A-2.6. and A-2.7.
CSA	B137.3-99 <b>e r2</b>	Rigid Polyvinyl Chloride (PVC) Pipe for Pressure Applications	Table A-2.5., A-2.6. and A-2.7.
CSA	B137.5-99 <b>r r2</b>	Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications	Table A-2.5., A-2.6. and A-2.7. A-2.5.6.(1)
CSA	B137.6-99 <b>r r2</b>	CPVC Pipe, Tubing, and Fittings for Hot- and Cold-Water Distribution Systems	Table A-2.5., A-2.6. and A-2.7. A-2.5.10. to 2.5.12.
CSA	B137.8-99 <b>r2</b>	Polybutylene (PB) Piping for Pressure Applications	Table A-2.5., A-2.6. and A-2.7.
CSA	B137.9-99 <b>r2</b>	Polyethylene/Aluminum/Polyethylene Composite Pressure-Pipe Systems	Table A-2.5., A-2.6. and A-2.7. A-2.5.13.(1)
CSA	B137.10-99 <b>r2</b>	Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure-Pipe Systems	Table A-2.5., A-2.6. and A-2.7. A-2.5.14.(1)
CSA	B137.11-99 <b>r2</b>	Polypropylene (PP-R) Pipe and Fittings for Pressure Applications	Table A-2.5., A-2.6. and A-2.7. A-2.5.15.(1)
CSA	B158.1-1976	Cast Brass Solder Joint Drainage, Waste and Vent Fittings	Table A-2.5., A-2.6. and A-2.7.

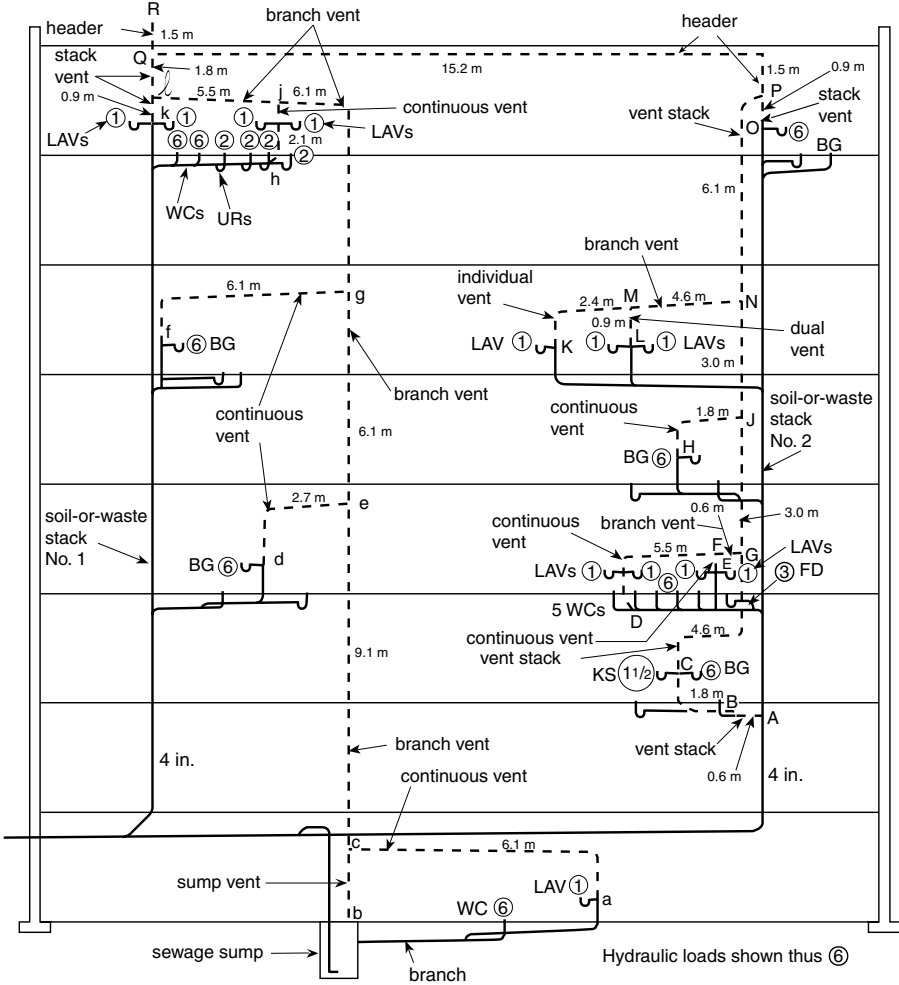
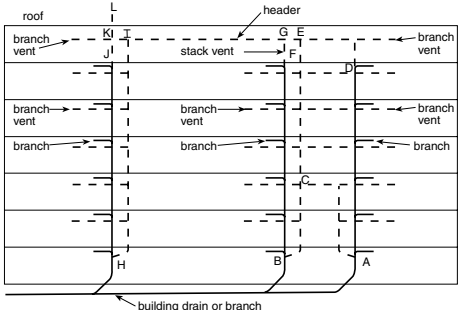
### A-1.9.3.

Table A-1.9.3. (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
CSA	B181.1-99 <b>r r2</b>	ABS Drain, Waste, and Vent Pipe and Pipe Fittings	Table A-2.5., A-2.6. and A-2.7. A-2.5.10. to 2.5.12.
CSA	B181.2-99 <b>r r2</b>	PVC Drain, Waste, and Vent Pipe and Pipe Fittings	Table A-2.5., A-2.6. and A-2.7. A-2.5.10. to 2.5.12.
CSA	B181.3-99 <b>r2</b>	Polyolefin Laboratory Drainage Systems	Table A-2.5., A-2.6. and A-2.7.
CSA	B182.1-99 <b>r r2</b>	Plastic Drain and Sewer Pipe and Pipe Fittings	Table A-2.5., A-2.6. and A-2.7.
CSA	B182.2-99 <b>r r2</b>	PVC Sewer Pipe and Fittings (PSM Type)	Table A-2.5., A-2.6. and A-2.7.
CSA	B182.4-99 <b>r r2</b>	Profile PVC Sewer Pipe and Fittings	Table A-2.5., A-2.6. and A-2.7.
CSA	B182.6-99 <b>r2</b>	Profile Polyethylene Sewer Pipe and Fittings	Table A-2.5., A-2.6. and A-2.7.
CSA	CAN/CSA-B281-M90	Aluminum Drain, Waste, and Vent Pipe and Components	Table A-2.5., A-2.6. and A-2.7.
CSA	G401-93	Corrugated Steel Pipe Products	Table A-2.5., A-2.6. and A-2.7.
McGraw-Hill		National Plumbing Code Handbook (1957) V.T. Manas (editor)	A-6.3.
NIST	Building Materials and Structures Report BMS-79, 1941	Water-Distributing Systems for Buildings, R.B. Hunter	A-6.3.

e2/r2	Code Reference	Change
e2	Figure A-5.2.1.	<p>Replace Figure A-5.2.1. with the following figure (The dotted line in element (b) should be a solid line under "LAV."): </p> <p>(a) building drain, branch or offset in soil-or-waste stack</p> <p>(b) branch, double fitting, WC, WC, LAV, LAV, bath, bath</p> <p>(c) separately vented fixture, building drain or branch</p> <p>(d) separately vented fixture, A double fitting with side inlets may be used here, branch or soil-or-waste stack</p>

e2/r2	Code Reference	Change
e2	Figure A-5.4.2.A.	<p>Replace Figure A-5.4.2.A. with the following figure (In the original figure, the element on the left had an extra "branch vent" label that was incorrect.):</p> <div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">  <p style="text-align: center;">No vent stack required (fixtures draining to the soil-or-waste stack from 4 storeys only).</p> </div> <div style="width: 45%;">  <p style="text-align: center;">Vent stack required (fixtures draining to the soil-or-waste stack from more than 4 storeys).</p> </div> </div>

e2/r2	Code Reference	Change																								
e2	Figure A-5.8.	<p>Replace Figure A-5.8. with the following figure (In the original figure, the “sump vent” label pointed to the wrong graphic element.):</p>  <p>Hydraulic loads shown thus ⑥</p>																								
e2	Figure A-5.8.3.B.	<p>Replace Figure A-5.8.3.B. with the following figure (The letter “I” was missing from the original figure.):</p>  <table border="1" data-bbox="1019 1625 1451 1822"> <thead> <tr> <th>Vent pipe</th> <th>Length to be considered</th> <th>NPC Reference</th> </tr> </thead> <tbody> <tr> <td>Vent stack (AC)</td> <td>ACEGIKL</td> <td>5.8.4.(2)</td> </tr> <tr> <td>Vent stack (BC)</td> <td>BCEGIKL</td> <td>5.8.4.(2)</td> </tr> <tr> <td>Vent stack (HI)</td> <td>HIKL</td> <td>5.8.4.(2)</td> </tr> <tr> <td>Stack vent (DE)</td> <td>DEGIKL</td> <td>5.8.4.(2)</td> </tr> <tr> <td>Stack vent (FG)</td> <td>FGIKL</td> <td>5.8.4.(2)</td> </tr> <tr> <td>Stack vent (JK)</td> <td>JKL</td> <td>5.8.4.(2)</td> </tr> <tr> <td>Header (CEGIKL) (or any section of it)</td> <td>ACEGIKL</td> <td>5.8.3.(4)</td> </tr> </tbody> </table> <p>(b)</p>	Vent pipe	Length to be considered	NPC Reference	Vent stack (AC)	ACEGIKL	5.8.4.(2)	Vent stack (BC)	BCEGIKL	5.8.4.(2)	Vent stack (HI)	HIKL	5.8.4.(2)	Stack vent (DE)	DEGIKL	5.8.4.(2)	Stack vent (FG)	FGIKL	5.8.4.(2)	Stack vent (JK)	JKL	5.8.4.(2)	Header (CEGIKL) (or any section of it)	ACEGIKL	5.8.3.(4)
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