

National Plumbing Code of Canada 2005

Revisions and Errata

Issued by the Canadian Commission on Building and Fire Codes

The tables that follow identify revisions and errata that apply to the National Plumbing Code of Canada 2005. Code pages containing revisions issued on 08-06-20 have been updated for your convenience; they are provided following the tables.

The revisions have been approved by the Canadian Commission on Building and Fire Codes. The following symbol appears following the title of an Article, Appendix Note, Table or Figure containing text that is affected by the revisions: ★

The errata are corrections that have been identified; they are provided to facilitate the use of the Code. The following symbol appears following the title of an Article, Appendix Note, Table or Figure containing text that is affected by the errata: ◇

Contact your local authority having jurisdiction to find out if these revisions and errata apply in your province or territory.

The intent and application statements affected by these revisions and errata have been updated, as applicable, on the CD-ROM version of the Code.

Revisions

Table of Revisions — National Plumbing Code 2005

Provision	Revision	Date of Issue
2 0 0 7		
Division B		
Table 1.3.1.2.	The following entries were added to the Table following the entries for ANSI/CSA: ASME/CSA, ASME A112.18.1/CSA B125.1-05, Plumbing Supply Fittings, 2.2.10.6.(1), 2.2.10.7.(1) ASME/CSA, ASME A112.18.2/CSA B125.2-05, Plumbing Waste Fittings, 2.2.3.3.(1), 2.2.10.6.(2) Entry for CAN/CSA-B125-01 was replaced with the following entry: CSA B125.3-05, Plumbing Fittings, 2.2.10.6.(1), 2.2.10.7.(2), 2.2.10.10.(2)	07-12-01
2.2.3.3.(1)	Standard referenced in this Sentence was changed to ASME A112.18.2/CSA B125.2, "Plumbing Waste Fittings"	07-12-01
2.2.10.6.	Article was changed to read as follows: 1) Supply fittings shall conform to ASME A112.18.1/CSA B125.1, "Plumbing Supply Fittings," or CSA B125.3, "Plumbing Fittings." 2) Waste fittings shall conform to ASME A112.18.2/CSA B125.2, "Plumbing Waste Fittings."	07-12-01

Table of Revisions — National Plumbing Code 2005 (Continued)

Provision	Revision	Date of Issue
2.2.10.7.	<p>Article 2.2.10.7. was replaced with the following text:</p> <p>2.2.10.7. Water Temperature Control (See Appendix A.)</p> <ol style="list-style-type: none"> 1) Except as provided in Sentence (2), all valves supplying fixed-location shower heads shall be individual pressure-balanced or thermostatic-mixing valves conforming to ASME A112.18.1/CSA B125.1, "Plumbing Supply Fittings." 2) Individual pressure-balanced or thermostatic-mixing valves shall not be required for showers having a single tempered water supply that is controlled by a master thermostatic-mixing valve conforming to CSA B125.3, "Plumbing Fittings." 3) All mixing valves supplying shower heads shall be of the pressure-balanced, thermostatic, or combination pressure-balanced/thermostatic type capable of <ol style="list-style-type: none"> a) maintaining a water outlet temperature that does not exceed 49°C, and b) limiting thermal shock. 4) The temperature of water discharging into a bathtub shall not exceed 49°C. 	07-12-01
2.2.10.10.(2)	<p>Term "anti-siphon ballcocks" was changed to "anti-siphon fill valves"</p> <p>Standard referenced in Sentence was changed to CSA B125.3, "Plumbing Fittings"</p>	07-12-01
2.6.1.12.	<p>The following Article was added:</p> <p>2.6.1.12. Service Water Heaters</p> <ol style="list-style-type: none"> 1) Thermostat controls for electric <i>storage-type service water heaters</i> shall be set at a temperature of 60°C. (See Appendix A.) 	07-12-01
Table 2.8.1.1.	<p>Entry for 2.2.10.6.(1) was changed as follows: [F80–OP5]</p> <p>Entry for 2.2.10.6.(2) was added: [F80–OH2.1,OH2.3]</p> <p>Entry for 2.2.10.7.(3) was changed as follows: (a) [F31–OS3.2] (b) [F30–OS3.1]</p> <p>Entry for 2.6.1.12.(1) was added: [F40–OS3.4]</p>	07-12-01
Table A-1.3.1.2.(1)	<p>Document number for CAN/CSA-B125-01 was changed to CSA B125.3-05</p>	07-12-01
A-2.2.10.7.	<p>The following Appendix Note was added:</p> <p>A-2.2.10.7. Hot Water Temperature.</p> <p>Hot water delivered at 60°C will severely burn human skin in 1 to 5 seconds. At 49°C, the time for a full thickness scald burn to occur is 10 minutes. Children, the elderly and persons with disabilities are particularly at risk of scald burns. Compliance with Article 2.2.10.7. will reduce the risk of scalding in showers and bathtubs, and reduce the risk of thermal shock from wall-mounted shower heads.</p> <p>These requirements apply to all occupancies, not just residential occupancies.</p> <p>The water outlet temperature at other fixtures, such as lavatories, sinks, laundry trays or bidets, is not addressed by Article 2.2.10.7., but a scald risk may exist at such fixtures nonetheless.</p>	07-12-01
A-2.6.1.11.(1)	<p>Standard referenced in Appendix Note was changed to CSA B125.3, "Plumbing Fittings"</p>	07-12-01

Table of Revisions — National Plumbing Code 2005 (Continued)

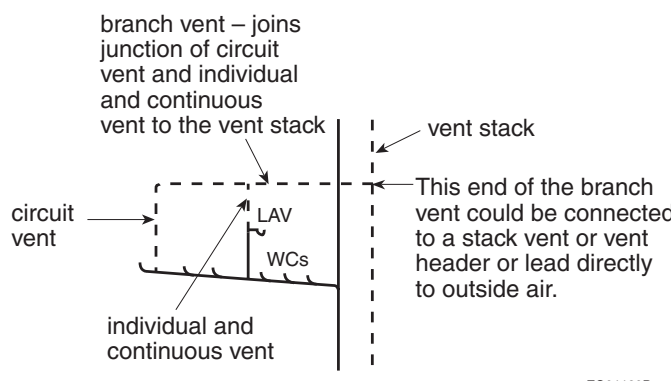
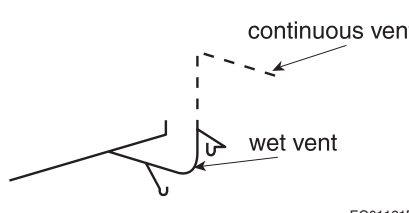
Provision	Revision	Date of Issue
A-2.6.1.12.(1)	<p>The following Appendix Note was added:</p> <p>A-2.6.1.12.(1) Service Water Heaters.</p> <p>Storing hot water at temperatures below 60°C in the hot water tank or in the delivery system may lead to the growth of legionella bacteria. Contemporary electric water heater tanks experience temperature stratification and thus tend to have legionella bacteria in the lower parts of the tank. Article 2.6.1.12. specifies a thermostat setting of 60°C, which addresses the concern over the growth of legionella bacteria in electric hot water storage tanks and is enforceable without introducing unnecessary complications. The growth of legionella bacteria is not a concern for other types of water heaters with different designs that use different fuels.</p> <p>Electrically heated water heaters are shipped with the thermostat set at 60°C. Article 2.6.1.12. is included in the NPC to formalize this de facto temperature setting as a requirement. The thermostats have graduated temperature markings to allow such a setting, which is not the case with gas- or oil-heated water heaters.</p>	07-12-01
2 0 0 8		
Division B		
Table 1.3.1.2.	<p>For revisions made to this Table, see the updated Code pages provided.</p> <p>The following reference was added to the entry for CSA B137.10: 2.2.5.13.(4)</p>	08-06-20
2.2.5.13.	<p>Article was changed to read as follows:</p> <ol style="list-style-type: none"> 1) PE/AL/PE composite pipe and fittings shall conform to CSA B137.9, "Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-Pipe Systems." (See Appendix A.) 2) Except as provided in Sentences (3) and (4), PE/AL/PE pipe and fittings shall not be used in hot <i>water systems</i>. 3) PE/AL/PE pipe with a pressure rating of 690 kPa or greater at 82°C shall be permitted for hot <i>water systems</i>. 4) PE/AL/PE pipe with a pressure rating of 690 kPa or greater at 82°C shall be used with fittings that conform to CSA B137.10, "Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-Pipe Systems," in hot <i>water systems</i>. 	08-06-20
Table 2.8.1.1.	<p>Entry for 2.2.5.13.(2): 2nd attribution was added as follows: [F20–OH2.1,OH2.2,OH2.3]</p> <p>Entries for 2.2.5.13.(3) and (4) were added as follows: (3) [F20–OH2.1,OH2.2,OH2.3] [F20–OP5] (4) [F20–OH2.1,OH2.2,OH2.3] [F20–OP5]</p>	08-06-20
Table A-1.3.1.2.(1)	For revisions made to this Table, see the updated Code pages provided.	08-06-20

Errata

Table of Errata — National Plumbing Code 2005

Provision	Erratum	Date of Issue
2 0 0 7		
Preface		
Relationship of the NPC to Standards Development and Conformity Assessment	In the third paragraph under the heading Certification, the wording of the last part of the first sentence was changed to read "...in the field of products for buildings and facilities."	07-12-01

Table of Errata — National Plumbing Code 2005 (Continued)

Provision	Erratum	Date of Issue
Division A		
1.4.1.2.(1)	"Them" was deleted from the entry for <i>circuit vent</i> so it reads as follows: "... and connects to the <i>fixture drain</i> of the most upstream <i>fixture</i> ."	07-12-01
Figure A-1.4.1.2.(1)-D	<p>This Figure was replaced with the following one:</p>  <p align="right">EG01120B</p>	07-12-01
Figure A-1.4.1.2.(1)-E	<p>This Figure was replaced with the following one:</p>  <p align="right">EG01121B</p>	07-12-01
Division B		
1.3.2.1.(1)	The following organization name and address were added: ASME ... American Society of Mechanical Engineers (22 Law Drive, P.O. Box 2900, Fairfield, New Jersey 07007-2900 U.S.A.; www.asme.org)	07-12-01
Table 2.6.3.1.	"Bathroom group" in first row of Table was italicized as it is a defined term	07-12-01
Table 2.8.1.1.	<p>Entry for 2.2.7.1.(1): "OH1.1" was deleted from the 1st attribution</p> <p>Entry for 2.2.7.1.(2): "OH1.1" was deleted from the 1st attribution</p> <p>Entry for 2.2.7.2.(1): "OH1.1" was deleted from the 1st attribution</p> <p>Entry for 2.2.7.4.(1): "OH1.1" was deleted from the 1st attribution</p> <p>Entry for 2.4.10.4.(2): "OH2.5" was deleted from the 1st attribution</p>	07-12-01
A-1.3.1.2.(1)	Text was changed from "Where documents are referenced in this Appendix,..." to "Where documents are referenced in the Appendices of this Code,..."	07-12-01
Table A-1.3.1.2.(1)	<p>Title was changed to "Documents Referenced in the Appendices of the National Plumbing Code of Canada 2005"</p> <p>Entry for ASHRAE was changed to read: ASHRAE 2005 ASHRAE Handbook – Fundamentals, Chapter 36, Pipe Sizing</p>	07-12-01
A-2.6.1.1.(1)	<p>List item (a) was changed to read as follows: (a) ASHRAE Handbook – Fundamentals, Chapter 36, Pipe Sizing</p>	07-12-01
2 0 0 8		
Division B		
Table 2.4.9.3.	"Bathroom group" in second row of Table was italicized as it is a defined term	08-06-20

Part 1 General

Section 1.1. General

1.1.1. Application

1.1.1.1. Application

1) This Part applies to all *plumbing systems* covered in this Code. (See Article 1.1.1.1. of Division A.)

1.1.2. Objectives and Functional Statements

1.1.2.1. Attribution to Acceptable Solutions

1) For the purposes of compliance with this Code as required in Clause 1.2.1.1.(1)(b) of Division A, the objectives and functional statements attributed to the acceptable solutions in Division B shall be the objectives and functional statements identified in Section 2.8. (See Appendix A.)

Section 1.2. Terms and Abbreviations

1.2.1. Definitions of Words and Phrases

1.2.1.1. Non-defined Terms

1) Words and phrases used in Division B that are not included in the list of definitions in Article 1.4.1.2. of Division A shall have the meanings that are commonly assigned to them in the context in which they are used, taking into account the specialized use of terms by the various trades and professions to which the terminology applies.

2) Where objectives and functional statements are referred to in Division B, they shall be the objectives and functional statements described in Parts 2 and 3 of Division A.

3) Where acceptable solutions are referred to in Division B, they shall be the provisions stated in Part 2.

1.2.1.2. Defined Terms

1) The words and terms in italics in Division B shall have the meanings assigned to them in Article 1.4.1.2. of Division A.

1.2.2. Symbols and Other Abbreviations

1.2.2.1. Symbols and Other Abbreviations

1) The symbols and other abbreviations in Division B shall have the meanings assigned to them in Article 1.4.2.1. of Division A and Article 1.3.2.1.

Section 1.3. Referenced Documents and Organizations

1.3.1. Referenced Documents

1.3.1.1. Effective Date

1) Unless otherwise specified herein, the documents referenced in this Code shall include all amendments, revisions and supplements effective to 30 June, 2004.

1.3.1.2. Applicable Editions

1) Where documents are referenced in this Code, they shall be the editions designated in Table 1.3.1.2. (See Appendix A.)

Table 1.3.1.2.
Documents Referenced in the National Plumbing Code of Canada 2005 ★
 Forming Part of Sentence 1.3.1.2.(1)

Issuing Agency	Document Number	Title of Document	Code Reference
ANSI/CSA	ANSI Z21.22-1999/CSA 4.4-M99	Relief Valves for Hot Water Supply Systems	2.2.10.11.(1)
ANSI/CSA	ANSI Z21.22a-2000/CSA 4.4a-2000	Addenda 1 to ANSI Z21.22-1999/CSA 4.4-M99, Relief Valves for Hot Water Supply Systems	2.2.10.11.(1)
ANSI/CSA	ANSI Z21.22b-2001/CSA 4.4b-2001	Addenda 2 to ANSI Z21.22-1999/CSA 4.4-M99, Relief Valves for Hot Water Supply Systems	2.2.10.11.(1)
ASME	ANSI/ASME B16.3-2006	Malleable Iron Threaded Fittings, Classes 150 and 300	2.2.6.6.(1)
ASME	ANSI/ASME B16.4-2006	Gray Iron Threaded Fittings, Classes 125 and 250	2.2.6.5.(1)
ASME	ANSI/ASME B16.12-1998	Cast Iron Threaded Drainage Fittings	2.2.6.3.(1)
ASME	ANSI/ASME B16.15-2006	Cast Copper Alloy Threaded Fittings, Classes 125 and 250	2.2.7.3.(1)
ASME	B16.18-2001	Cast Copper Alloy Solder-Joint Pressure Fittings	2.2.7.6.(1) 2.2.7.6.(2)
ASME	ANSI/ASME B16.22-2001	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings	2.2.7.6.(1)
ASME	ANSI/ASME B16.23-2002	Cast Copper Alloy Solder Joint Drainage Fittings: DWV	2.2.7.5.(1)
ASME	ANSI/ASME B16.24-2001	Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 400, 600, 900, 1500, and 2500	2.2.7.2.(1)
ASME	ANSI/ASME B16.26-2006	Cast Copper Alloy Fittings for Flared Copper Tubes	2.2.7.7.(1) 2.2.7.7.(2)
ASME	ANSI/ASME B16.29-2001	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings – DWV	2.2.7.5.(1)
ASME/CSA	ASME A112.18.1-05/ CAN/CSA-B125.1-05 ⁽²⁾	Plumbing Supply Fittings	2.2.10.6.(1) 2.2.10.7.(1)
ASME/CSA	ASME A112.18.2-05/ CAN/CSA-B125.2-05 ⁽²⁾	Plumbing Waste Fittings	2.2.3.3.(1) 2.2.10.6.(2)
ASSE	ANSI/ASSE 1010-2004	Water Hammer Arresters	2.2.10.15.(1)
ASSE	1051-2002	Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems	2.2.10.16.(1)
ASTM	A 53/A 53M-06a	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless	2.2.6.7.(4)
ASTM	A 518/A 518M-99	Corrosion-Resistant High-Silicon Iron Castings	2.2.8.1.(1)
ASTM	B 32-04	Solder Metal	2.2.9.2.(1)
ASTM	B 42-02e1	Seamless Copper Pipe, Standard Sizes	2.2.7.1.(1)
ASTM	B 43-98	Seamless Red Brass Pipe, Standard Sizes	2.2.7.1.(2)

Table 1.3.1.2. (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
ASTM	B 88-03	Seamless Copper Water Tube	2.2.7.4.(1)
ASTM	B 306-02	Copper Drainage Tube (DWV)	2.2.7.4.(1)
ASTM	B 813-00e1	Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube	2.2.9.2.(3)
ASTM	B 828-02	Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings	2.3.2.4.(1)
ASTM	C 1053-00	Borosilicate Glass Pipe and Fittings for Drain, Waste, and Vent (DWV) Applications	2.2.8.1.(1)
ASTM	D 2466-06	Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40	2.2.5.8.(2)
ASTM	D 2467-06	Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80	2.2.5.8.(2)
ASTM	D 3261-03	Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing	2.2.5.5.(3)
ASTM	F 628-06e1	Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core	2.2.5.10.(1) 2.2.5.12.(1)
ASTM	F 714-06a	Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter	2.2.5.6.(1)
AWWA	ANSI/AWWA C104/A21.4-2004	Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water	2.2.6.4.(2)
AWWA	ANSI/AWWA C110/A21.10-2003	Ductile-Iron and Gray-Iron Fittings, 3 in. Through 48 in. (75 mm Through 1200 mm), for Water and Other Liquids	2.2.6.4.(3)
AWWA	C111/A21.11-2007	Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings	2.2.6.4.(4)
AWWA	ANSI/AWWA C151/A21.51-2002	Ductile-Iron Pipe, Centrifugally Cast, for Water or Other Liquids	2.2.6.4.(1)
CCBFC	NRCC 47666	National Building Code of Canada 2005	1.1.1.1.(3) ⁽¹⁾ 1.4.1.2.(1) ⁽¹⁾ 2.1.3.1.(1) 2.2.5.12.(2) 2.2.5.12.(3) 2.2.6.7.(3) 2.4.3.1.(1) 2.4.10.4.(1)
CCBFC	NRCC 47667	National Fire Code of Canada 2005	2.5.5.2.
CGSB	CAN/CGSB-34.1-94	Asbestos-Cement Pressure Pipe	2.2.5.2.(1)
CGSB	CAN/CGSB-34.9-94	Asbestos-Cement Sewer Pipe	2.2.5.1.(2)
CGSB	CAN/CGSB-34.22-94	Asbestos-Cement Drain Pipe	2.2.5.1.(1)
CGSB	CAN/CGSB-34.23-94	Asbestos-Cement House Connection Sewer Pipe	2.2.5.1.(2)
CSA	A60.1-M1976	Vitrified Clay Pipe	2.2.5.4.(1)
CSA	A60.3-M1976	Vitrified Clay Pipe Joints	2.2.5.4.(2)
CSA	CAN/CSA-A257.1-03	Non-Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings	2.2.5.3.(1)
CSA	CAN/CSA-A257.2-03	Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings	2.2.5.3.(1)
CSA	CAN/CSA-A257.3-03	Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections, and Fittings Using Rubber Gaskets	2.2.5.3.(2)
CSA	CAN/CSA-A257.4-03	Precast Reinforced Circular Concrete Manhole Sections, Catch Basins, and Fittings	2.2.5.3.(5)
CSA	CAN/CSA-B45 Series-02	Plumbing Fixtures	2.2.2.2.(1)
CSA	CAN/CSA-B45.1-02	Ceramic Plumbing Fixtures	2.2.2.2.(2)
CSA	CAN/CSA-B45.2-02	Enamelled Cast Iron Plumbing Fixtures	2.2.2.2.(3)

Table 1.3.1.2. (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
CSA	CAN/CSA-B45.3-02	Porcelain-Enamelled Steel Plumbing Fixtures	2.2.2.2.(4)
CSA	CAN/CSA-B45.4-02	Stainless Steel Plumbing Fixtures	2.2.2.2.(5)
CSA	CAN/CSA-B45.5-02	Plastic Plumbing Fixtures	2.2.2.2.(6)
CSA	CAN/CSA-B45.9-02	Macerating Systems and Related Components	2.2.2.2.(8)
CSA	CAN/CSA-B45.10-01	Hydromassage Bathtubs	2.2.2.2.(7)
CSA	CAN/CSA-B64.0-01	Definitions, General Requirements, and Test Methods for Vacuum Breakers and Backflow Preventers	2.2.10.10.(1)
CSA	CAN/CSA-B64.1.1-01	Vacuum Breakers, Atmospheric Type (AVB)	2.2.10.10.(1)
CSA	CAN/CSA-B64.1.2-01	Vacuum Breakers, Pressure Type (PVB)	2.2.10.10.(1)
CSA	CAN/CSA-B64.2-01	Vacuum Breakers, Hose Connection Type (HCVB)	2.2.10.10.(1)
CSA	CAN/CSA-B64.2.1-01	Vacuum Breakers, Hose Connection Type (HCVB) with Manual Draining Feature	2.2.10.10.(1)
CSA	CAN/CSA-B64.2.2-01	Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature	2.2.10.10.(1)
CSA	CAN/CSA-B64.3-01	Backflow Preventers, Dual Check Valve Type with Atmospheric Port (DCAP)	2.2.10.10.(1)
CSA	CAN/CSA-B64.4-01	Backflow Preventers, Reduced Pressure Principle Type (RP)	2.2.10.10.(1)
CSA	CAN/CSA-B64.4.1-01	Backflow Preventers, Reduced Pressure Principle Type for Fire Systems (RPF)	2.6.2.4.(2) 2.6.2.4.(4)
CSA	CAN/CSA-B64.5-01	Backflow Preventers, Double Check Valve Type (DCVA)	2.2.10.10.(1)
CSA	CAN/CSA-B64.5.1-01	Backflow Preventers, Double Check Valve Type for Fire Systems (DCVAF)	2.6.2.4.(2)
CSA	CAN/CSA-B64.6-01	Backflow Preventers, Dual Check Valve Type (DuC)	2.2.10.10.(1)
CSA	CAN/CSA-B64.6.1-01	Backflow Preventers, Dual Check Valve Type for Fire Systems (DuCF)	2.6.2.4.(2)
CSA	CAN/CSA-B64.7-01	Vacuum Breakers, Laboratory Faucet Type (LFVB)	2.2.10.10.(1)
CSA	CAN/CSA-B64.8-01	Backflow Preventers, Dual Check Valve Type with Intermediate Vent (DuCV)	2.2.10.10.(1)
CSA	CAN/CSA-B64.9-01	Backflow Preventers, Single Check Valve Type for Fire Systems (SCVAF)	2.6.2.4.(2)
CSA	CAN/CSA-B64.10-01	Manual for the Selection and Installation of Backflow Prevention Devices	2.6.2.1.(3)
CSA	B70-06	Cast Iron Soil Pipe, Fittings, and Means of Joining	2.2.6.1.(1) 2.4.6.4.(2)
CSA	CAN/CSA-B125.3-05 ⁽²⁾	Plumbing Fittings	2.2.10.6.(1) 2.2.10.7.(2) 2.2.10.10.(2)
CSA	CAN/CSA-B127.1-99	Asbestos Cement Drain, Waste and Vent Pipe and Pipe Fittings	2.2.5.1.(1) 2.2.6.2.(1)
CSA	B127.2-M1977	Components for Use in Asbestos Cement Building Sewer Systems	2.2.5.1.(2) 2.2.6.2.(1)
CSA	B137.1-05	Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services	2.2.5.5.(1)
CSA	B137.2-05	Polyvinylchloride (PVC) Injection-Moulded Gasketed Fittings for Pressure Applications	2.2.5.8.(3)
CSA	B137.3-05	Rigid Polyvinyl Chloride (PVC) Pipe for Pressure Applications	2.2.5.8.(1)
CSA	B137.5-05	Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications	2.2.5.7.(1)

Table 1.3.1.2. (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
CSA	B137.6-05	Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing, and Fittings for Hot- and Cold-Water Distribution Systems	2.2.5.9.(1)
CSA	B137.9-05	Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-Pipe Systems	2.2.5.13.(1)
CSA	B137.10-05	Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-Pipe Systems	2.2.5.13.(4) 2.2.5.14.(1)
CSA	B137.11-05	Polypropylene (PP-R) Pipe and Fittings for Pressure Applications	2.2.5.15.(1)
CSA	B158.1-1976	Cast Brass Solder Joint Drainage, Waste and Vent Fittings	2.2.10.1.(1)
CSA	B181.1-06	Acrylonitrile-Butadiene-Styrene (ABS) Drain, Waste, and Vent Pipe and Pipe Fittings	2.2.5.10.(1) 2.2.5.11.(1) 2.2.5.12.(1) 2.4.6.4.(2)
CSA	B181.2-06	Polyvinylchloride (PVC) and Chlorinated Polyvinylchloride (CPVC) Drain, Waste, and Vent Pipe and Pipe Fittings	2.2.5.10.(1) 2.2.5.11.(1) 2.2.5.12.(1) 2.4.6.4.(2)
CSA	B181.3-06	Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems	2.2.8.1.(1)
CSA	B182.1-06	Plastic Drain and Sewer Pipe and Pipe Fittings	2.2.5.10.(1) 2.4.6.4.(2)
CSA	B182.2-06	PSM Type Polyvinylchloride (PVC) Sewer Pipe and Fittings	2.2.5.10.(1)
CSA	B182.4-06	Profile Polyvinylchloride (PVC) Sewer Pipe and Fittings	2.2.5.10.(1)
CSA	B182.6-06	Profile Polyethylene (PE) Sewer Pipe and Fittings For Leak-Proof Sewer Applications	2.2.5.10.(1)
CSA	B182.7-06	PSM Type Multilayer Polyvinylchloride (PVC) Sewer Pipe Having Reprocessed-Recycled Content	2.2.5.10.(1)
CSA	B242-05	Groove- and Shoulder-Type Mechanical Pipe Couplings	2.2.10.4.(1)
CSA	B272-93	Prefabricated Self-Sealing Roof Vent Flashings	2.2.10.14.(2)
CSA	CAN/CSA-B356-00	Water Pressure Reducing Valves for Domestic Water Supply Systems	2.2.10.12.(1)
CSA	CAN/CSA-B602-05	Mechanical Couplings for Drain, Waste, and Vent Pipe and Sewer Pipe	2.2.10.4.(2)
CSA	CAN/CSA-F379.1-88	Solar Domestic Hot Water Systems (Liquid to Liquid Heat Transfer)	2.2.10.13.(1)
CSA	CAN/CSA-F383-87	Installation Code for Solar Domestic Hot Water Systems	2.6.1.8.(1)
CSA	G401-01	Corrugated Steel Pipe Products	2.2.6.8.(1)
ULC	CAN/ULC-S114-05	Test for Determination of Non-Combustibility in Building Materials	1.4.1.2.(1) ⁽¹⁾

Notes to Table 1.3.1.2.:

(1) Code reference is in Division A.

(2) ASME A112.18.1-05/CAN/CSA-B125.1-05, ASME A112.18.2-05/CAN/CSA-B125.2-05 and CAN/CSA-B125.3-05 replace CAN/CSA-B125-01.

1.3.2. Organizations

1.3.2.1. Abbreviations of Proper Names ◇

1) The abbreviations of proper names in this Code shall have the meanings assigned to them in this Article (the appropriate addresses of the organizations are shown in brackets).

ANSI American National Standards Institute (25 West 43rd Street, 4th Floor, New York, New York 10036 U.S.A.; www.ansi.org)

- ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers (1791 Tullie Circle, N.E., Atlanta, Georgia 30329-2305 U.S.A.; www.ashrae.org)
- ASME American Society of Mechanical Engineers (22 Law Drive, P.O. Box 2900, Fairfield, New Jersey 07007-2900 U.S.A.; www.asme.org)
- ASPE American Society of Plumbing Engineers (8614 Catalpa Avenue, Suite 1007, Chicago, Illinois 60656-1116 U.S.A.; www.aspe.org)
- ASSE American Society of Sanitary Engineering (A-901 Canterbury Road, West Lake, Ohio 44145 U.S.A.; www.asse-plumbing.org)
- ASTM American Society for Testing and Materials International (100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959 U.S.A.; www.astm.org)
- AWWA American Water Works Association (6666 West Quincy Avenue, Denver, Colorado 80235 U.S.A.; www.awwa.org)
- CAN National Standard of Canada designation (The number or name following the CAN designation represents the agency under whose auspices the standard is issued.
CAN 1 designates CGA,
CAN 2 designates CGSB,
CAN 3 designates CSA, and
CAN 4 designates ULC.)
- CCBFC Canadian Commission on Building and Fire Codes (National Research Council of Canada, Ottawa, Ontario K1A 0R6; www.nationalcodes.ca)
- CGSB Canadian General Standards Board (Place du Portage, Phase III, 6B1, 11 Laurier Street, Gatineau, Quebec K1A 1G6; www.pwgsc.gc.ca/cgsb)
- CSA Canadian Standards Association (5060 Spectrum Way, Suite 100, Mississauga, Ontario L4W 5N6; www.csa.ca)
- IRC Institute for Research in Construction (National Research Council of Canada, Ottawa, Ontario K1A 0R6; irc.nrc-cnrc.gc.ca)
- MSC Meteorological Service of Canada [formerly AES – Atmospheric Environment Service] (Environment Canada, 4905 Dufferin Street, Toronto, Ontario M3H 5T4; www.msc-smc.ec.gc.ca)
- NBC National Building Code of Canada 2005 (see CCBFC)
- NFC National Fire Code of Canada 2005 (see CCBFC)
- NFPA National Fire Protection Association (1 Batterymarch Park, Quincy, Massachusetts 02169-7471 U.S.A.; www.nfpa.org)
- NIST National Institute of Standards and Technology (100 Bureau Drive, Stop 1070, Gaithersburg, Maryland 20899-1070 U.S.A.; www.nist.gov)
- NPC National Plumbing Code of Canada 2005 (see CCBFC)
- NRC National Research Council of Canada (Ottawa, Ontario K1A 0R6; www.nrc-cnrc.gc.ca)
- ULC Underwriters' Laboratories of Canada (7 Underwriters Road, Toronto, Ontario M1R 3B4; www.ulc.ca)

2.2.5.11. Transition Solvent Cement

(See A-2.2.5.10. to 2.2.5.12. in Appendix A.)

- 1) Solvent cement for transition joints shall conform to
 - a) CSA B181.1, "Acrylonitrile-Butadiene-Styrene (ABS) Drain, Waste, and Vent Pipe and Pipe Fittings," or
 - b) CSA B181.2, "Polyvinylchloride (PVC) and Chlorinated Polyvinylchloride (CPVC) Drain, Waste, and Vent Pipe and Pipe Fittings."

2) Transition solvent cement shall only be used for joining an ABS *drainage system* to a PVC *drainage system*.

2.2.5.12. Plastic Pipe, Fittings and Solvent Cement Used in Buildings

(See A-2.2.5.10. to 2.2.5.12. in Appendix A.)

1) Plastic pipe, fittings and solvent cement used inside or under a *building* in a *drainage* or *venting system* shall conform to

- a) ASTM F 628, "Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core,"
- b) CSA B181.1, "Acrylonitrile-Butadiene-Styrene (ABS) Drain, Waste, and Vent Pipe and Pipe Fittings," or
- c) CSA B181.2, "Polyvinylchloride (PVC) and Chlorinated Polyvinylchloride (CPVC) Drain, Waste, and Vent Pipe and Pipe Fittings."

2) Requirements for *combustible* piping in relation to fire safety shall conform to Sentences 3.1.5.16.(1) and 9.10.9.6.(2) to (8), and Articles 3.1.9.4. and 9.10.9.7. of Division B of the NBC.

3) Where *noncombustible* piping pierces a *fire separation* or a fire stop, the requirements of fire stopping of Subsection 3.1.9., Sentence 9.10.9.6.(1) and Article 9.10.16.4. of Division B of the NBC shall apply.

2.2.5.13. Polyethylene/Aluminum/Polyethylene Composite Pipe and Fittings ★

1) PE/AL/PE composite pipe and fittings shall conform to CSA B137.9, "Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-Pipe Systems." (See Appendix A.)

2) Except as provided in Sentences (3) and (4), PE/AL/PE pipe and fittings shall not be used in hot *water systems*.

3) PE/AL/PE pipe with a pressure rating of 690 kPa or greater at 82°C shall be permitted for hot *water systems*.

4) PE/AL/PE pipe with a pressure rating of 690 kPa or greater at 82°C shall be used with fittings that conform to CSA B137.10, "Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-Pipe Systems," in hot *water systems*.

2.2.5.14. Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe and Fittings

1) PEX/AL/PEX composite pipe and fittings used in hot and cold *potable water systems* shall conform to CSA B137.10, "Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-Pipe Systems." (See Appendix A.)

2.2.5.15. Polypropylene Pipe and Fittings

1) Polypropylene pipe and fittings used for hot and cold *potable water systems* shall conform to CSA B137.11, "Polypropylene (PP-R) Pipe and Fittings for Pressure Applications." (See Appendix A.)

2.2.6. Ferrous Pipe and Fittings

(For a summary of pipe applications, see A-2.2.5, 2.2.6. and 2.2.7. in Appendix A.)

2.2.6.1. Cast-Iron Drainage and Vent Pipe and Fittings

1) Drainage piping, vent piping and fittings made of cast iron shall conform to CSA B70, "Cast Iron Soil Pipe, Fittings, and Means of Joining."

2) Cast-iron soil pipe and fittings shall not be used in a *water system*.

2.2.6.2. Cast-Iron Fittings for Asbestos-Cement Drainage Pipe

1) Cast-iron fittings designed for use with asbestos-cement pipe for drainage purposes shall conform to the applicable requirements of

- a) CAN/CSA-B127.1, "Asbestos Cement Drain, Waste and Vent Pipe and Pipe Fittings," or
- b) CSA B127.2-M, "Components for Use in Asbestos Cement Building Sewer Systems."

2.2.6.3. Threaded Cast-Iron Drainage Fittings

1) Threaded cast-iron drainage fittings shall conform to ANSI/ASME B16.12, "Cast Iron Threaded Drainage Fittings."

2) Threaded cast-iron drainage fittings shall not be used in a *water system*.

2.2.6.4. Cast-Iron Water Pipes

1) Cast-iron water pipes shall conform to ANSI/AWWA C151/A21.51, "Ductile-Iron Pipe, Centrifugally Cast, for Water or Other Liquids."

2) Cement mortar lining for cast-iron water pipes shall conform to ANSI/AWWA C104/A21.4, "Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water."

3) Cast-iron fittings for cast-iron or ductile-iron water pipes shall conform to ANSI/AWWA C110/A21.10, "Ductile-Iron and Gray-Iron Fittings, 3 in. Through 48 in. (75 mm Through 1200 mm), for Water and Other Liquids."

4) Rubber gasket joints for cast-iron and ductile-iron pressure pipe for water shall conform to AWWA C111/A21.11, "Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings."

2.2.6.5. Screwed Cast-Iron Water Fittings

1) Screwed cast-iron water fittings shall conform to ANSI/ASME B16.4, "Gray Iron Threaded Fittings, Classes 125 and 250."

2) Screwed cast-iron water fittings used in a *water system* shall be cement-mortar lined or galvanized.

3) Screwed cast-iron water fittings shall not be used in a *drainage system*.

2.2.6.6. Screwed Malleable Iron Water Fittings

1) Screwed malleable iron water fittings shall conform to ANSI/ASME B16.3, "Malleable Iron Threaded Fittings, Classes 150 and 300."

2) Screwed malleable iron water fittings used in a *water system* shall be cement-mortar lined or galvanized.

3) Screwed malleable iron water fittings shall not be used in a *drainage system*.

2.2.6.7. Steel Pipe

1) Except as provided in Sentences (2) and (3), welded and seamless steel pipe shall not be used in a *plumbing system*.

2) Galvanized steel pipe is permitted to be used in a *drainage system* or a *venting system* above ground inside a *building*.

3) Galvanized steel pipe and fittings shall not be used in a *water distribution system* except

- a) in *buildings* of industrial *occupancy* as described in the NBC, or
- b) for the repair of existing galvanized steel piping systems.

(See Appendix A.)

4) Galvanized steel pipe and fittings shall conform to ASTM A 53/A 53M, "Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless."

2.2.6.8. Corrugated Steel Pipe and Couplings

1) Corrugated steel pipe and couplings shall conform to CSA G401, "Corrugated Steel Pipe Products."

2) Corrugated steel pipe shall only be used underground outside a *building* in a *storm drainage system*.

3) Couplings for corrugated steel pipe shall be constructed so that when installed they shall

- a) maintain the pipe alignment,
- b) resist the separation of adjoining lengths of pipe,
- c) prevent root penetration, and
- d) prevent the infiltration of surrounding material.

2.2.6.9. Sheet Metal Leaders

1) A sheet metal *leader* shall not be used except above ground outside a *building*.

2.2.7. Non-Ferrous Pipe and Fittings

(For a summary of pipe applications, see A-2.2.5, 2.2.6. and 2.2.7. in Appendix A.)

2.2.7.1. Copper and Brass Pipe

1) Copper pipe shall conform to ASTM B 42, "Seamless Copper Pipe, Standard Sizes."

2) Brass pipe shall conform to ASTM B 43, "Seamless Red Brass Pipe, Standard Sizes."

2.2.7.2. Brass or Bronze Pipe Flanges and Flanged Fittings

1) Brass or bronze pipe flanges and flanged fittings shall conform to ANSI/ASME B16.24, "Cast Copper Alloy Pipe Flanges and Flanged Fittings: Classes 150, 300, 400, 600, 900, 1500, and 2500."

2.2.7.3. Brass or Bronze Threaded Water Fittings

1) Brass or bronze threaded water fittings shall conform to ANSI/ASME B16.15, "Cast Copper Alloy Threaded Fittings, Classes 125 and 250."

2) Brass or bronze threaded water fittings shall not be used in a *drainage system*.

2.2.7.4. Copper Tube

- 1)** Copper tube shall conform to
- a) ASTM B 88, "Seamless Copper Water Tube," or
 - b) ASTM B 306, "Copper Drainage Tube (DWV)."

2) Except as provided in Sentence (3), the use of copper tube shall conform to Table 2.2.7.4.

3) Copper tube shall not be used for the *fixture drain* or the portion of the *vent pipe* below the *flood level rim* of a flush-valve-operated urinal.

Table 2.2.7.4.
Permitted Use of Copper Tube and Pipe
 Forming Part of Sentence 2.2.7.4.(2)

Type of Copper Tube or Pipe	Plumbing Purposes							
	Water Service Pipe	Water Distribution System		Building Sewer	Drainage System		Venting System	
		Under-ground	Above-ground		Under-ground	Above-ground	Under-ground	Above-ground
K & L hard temper	N	N	P	P	P	P	P	P
K & L soft temper	P	P	P	N	N	N	N	N
M hard temper	N	N	P	N	N	P	N	P
M soft temper	N	N	N	N	N	N	N	N
DWV	N	N	N	N	N	P	N	P

P = Permitted N = Not Permitted

2.2.7.5. Solder-Joint Drainage Fittings

- 1) Solder-joint fittings for *drainage systems* shall conform to
 - a) ANSI/ASME B16.23, "Cast Copper Alloy Solder Joint Drainage Fittings: DWV," or
 - b) ANSI/ASME B16.29, "Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings – DWV."
- 2) Solder-joint fittings for *drainage systems* shall not be used in a *water system*.

2.2.7.6. Solder-Joint Water Fittings

- 1) Except as provided in Sentence (2), solder-joint fittings for *water systems* shall conform to
 - a) ASME B16.18, "Cast Copper Alloy Solder-Joint Pressure Fittings," or
 - b) ANSI/ASME B16.22, "Wrought Copper and Copper Alloy Solder Joint Pressure Fittings."
- 2) Solder-joint fittings for *water systems* not made by casting or the wrought process shall conform to the applicable requirements of ASME B16.18, "Cast Copper Alloy Solder-Joint Pressure Fittings."

2.2.7.7. Flared-Joint Fittings for Copper Water Systems

- 1) Flared-joint fittings for copper tube *water systems* shall conform to ANSI/ASME B16.26, "Cast Copper Alloy Fittings for Flared Copper Tubes."
- 2) Flared-joint fittings for copper tube *water systems* not made by casting shall conform to the applicable requirements of ANSI/ASME B16.26, "Cast Copper Alloy Fittings for Flared Copper Tubes."

2.2.7.8. Lead Waste Pipe and Fittings

- 1) Lead *waste pipe* and fittings shall not be used in a *water system* or as a *building sewer*.
- 2) When there is a change in *size* of a lead closet bend, the change shall be in the vertical section of the bend or made in a manner that prevents the retention of liquid in the bend.

Table 2.8.1.1. (Continued)

Acceptable Solutions	Objectives and Functional Statements ⁽¹⁾
(2)	[F20–OH2.1]
(3)	[F20–OH2.1]
(4)	[F20–OH2.1]
(5)	[F20–OH2.1]
2.2.5.4. Vitrified Clay Pipe and Fittings	
(1)	[F20–OH2.1]
(2)	[F20–OH2.1]
(3)	[F20–OH2.1]
2.2.5.5. Polyethylene Pipe and Fittings	
(1)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
(2)	[F20–OP5]
(3)	[F20–OP5]
2.2.5.6. Polyethylene Pipe Used Underground	
(1)	[F72–OH2.1,OH2.3.]
2.2.5.7. Crosslinked Polyethylene Pipe and Fittings	
(1)	[F20–OH2.2]
	[F20–OP5]
2.2.5.8. PVC Pipe and Fittings	
(1)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
(2)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
(3)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
(4)	[F20–OP5]
2.2.5.9. CPVC Pipe, Fittings and Solvent Cements	
(1)	[F20–OH2.2,OH2.3.,OH2.4]
	[F20–OP5]
(2)	[F20–OP5]
2.2.5.10. Plastic Pipe, Fittings and Solvent Cement Used Underground	
(1)	[F20,F80–OH2.1,OH2.3]
2.2.5.11. Transition Solvent Cement	
(1)	[F20–OH2.1,OH2.3]
(2)	[F20–OH2.1,OH2.3]

Table 2.8.1.1. (Continued)

Acceptable Solutions	Objectives and Functional Statements ⁽¹⁾
2.2.5.12. Plastic Pipe, Fittings and Solvent Cement Used in Buildings	
(1)	[F20–OH2.1,OH2.3]
2.2.5.13. Polyethylene/Aluminum/Polyethylene Composite Pipe and Fittings ★	
(1)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
(2)	[F20–OP5]
	[F20–OH2.1,OH2.2,OH2.3]
(3)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
(4)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
2.2.5.14. Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe and Fittings	
(1)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
2.2.5.15. Polypropylene Pipe and Fittings	
(1)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
2.2.6.1. Cast-Iron Drainage and Vent Pipe and Fittings	
(1)	[F20–OH2.1,OH2.3]
(2)	[F20–OH2.2]
2.2.6.2. Cast-Iron Fittings for Asbestos-Cement Drainage Pipe	
(1)	[F20–OH2.1,OH2.3]
2.2.6.3. Threaded Cast-Iron Drainage Fittings	
(1)	[F20–OH2.1,OH2.3]
(2)	[F20–OP5]
2.2.6.4. Cast-Iron Water Pipes	
(1)	[F20–OH2.1,OH2.2,OH2.3]
	[F20–OP5]
(2)	[F80–OH2.2]
(3)	[F20–OP5]
(4)	[F20–OP5]
2.2.6.5. Screwed Cast-Iron Water Fittings	
(1)	[F20–OP5]
(2)	[F80–OH2.2]
(3)	[F81–OH2.1,OH2.3]

Table 2.8.1.1. (Continued)

Acceptable Solutions	Objectives and Functional Statements ⁽¹⁾
2.2.6.6. Screwed Malleable Iron Water Fittings	
(1)	[F81-OP5]
(2)	[F80-OH2.2]
(3)	[F81-OH2.1,OH2.3]
2.2.6.7. Steel Pipe	
(1)	[F80-OH2.1,OH2.3] [F46-OH2.2]

Appendix A

Explanatory Material

A-1.1.2.1.(1) Objectives and Functional Statements Attributed to Acceptable Solutions. The objectives and functional statements attributed to each Code provision are shown in Table 2.8.1.1. at the end of Division B.

Many provisions in Division B serve as modifiers of or pointers to other provisions or serve other clarification or explanatory purposes. In most cases, no objectives and functional statements have been attributed to such provisions, which therefore do not appear in the above-mentioned table.

For provisions that serve as modifiers of or pointers to other referenced provisions and that do not have any objectives and functional statements attributed to them, the objectives and functional statements that should be used are those attributed to the provisions they reference.

A-1.3.1.2.(1) Referenced Documents. ◇ Where documents are referenced in the Appendices of this Code, they shall be the editions designated in Table A-1.3.1.2.(1).

Table A-1.3.1.2.(1)
Documents Referenced in the Appendices of the National Plumbing Code of Canada 2005 ◇ ★

Issuing Agency	Document Number	Title of Document	Code Reference
ASHRAE	2005	ASHRAE Handbook – Fundamentals, Chapter 36, Pipe Sizing	A-2.6.1.1.(1)
ASME	ANSI/ASME B16.3-2006	Malleable Iron Threaded Fittings, Classes 150 and 300	Table A-2.2.5, 2.2.6. and 2.2.7.
ASME	ANSI/ASME B16.4-2006	Gray Iron Threaded Fittings, Classes 125 and 250	Table A-2.2.5, 2.2.6. and 2.2.7.
ASME	ANSI/ASME B16.15-2006	Cast Copper Alloy Threaded Fittings, Classes 125 and 250	Table A-2.2.5, 2.2.6. and 2.2.7.
ASME	B16.18-2001	Cast Copper Alloy Solder-Joint Pressure Fittings	Table A-2.2.5, 2.2.6. and 2.2.7.
ASME	ANSI/ASME B16.22-2001	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings	Table A-2.2.5, 2.2.6. and 2.2.7.
ASME	ANSI/ASME B16.23-2002	Cast Copper Alloy Solder Joint Drainage Fittings: DWV	Table A-2.2.5, 2.2.6. and 2.2.7.
ASME	ANSI/ASME B16.29-2001	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings – DWV	Table A-2.2.5, 2.2.6. and 2.2.7.
ASPE	1999	Data Book – Volume 2, Chapter 5, Cold Water Systems	A-2.6.1.1.(1)
ASPE	1999	Data Book – Volume 2, Chapter 6, Domestic Water Heating Systems Fundamentals	A-2.6.1.1.(1)
ASPE	2003	Data Book – Volume 4, Chapter 8, Grease Interceptors	A-2.4.4.3.(1)

This Appendix is included for explanatory purposes only and does not form part of the requirements. The numbers that introduce each Appendix Note correspond to the applicable requirements in this Division. The figures are schematic only; they depict various parts of the plumbing system but do not include details. For an explanation of the symbols and abbreviations used in the figures, refer to the list provided at the end of the Code.

Table A-1.3.1.2.(1) (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
ASTM	A 53/A 53M-06a	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless	Table A-2.2.5, 2.2.6. and 2.2.7.
ASTM	B 42-02e1	Seamless Copper Pipe, Standard Sizes	Table A-2.2.5, 2.2.6. and 2.2.7.
ASTM	B 43-98	Seamless Red Brass Pipe, Standard Sizes	Table A-2.2.5, 2.2.6. and 2.2.7.
ASTM	B 88-03	Seamless Copper Water Tube	Table A-2.2.5, 2.2.6. and 2.2.7.
ASTM	B 306-02	Copper Drainage Tube (DWV)	Table A-2.2.5, 2.2.6. and 2.2.7.
ASTM	D 2466-06	Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40	Table A-2.2.5, 2.2.6. and 2.2.7.
ASTM	D 2467-06	Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80	Table A-2.2.5, 2.2.6. and 2.2.7.
ASTM	D 3138-04	Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Non-Pressure Piping Components	A-2.2.5.10. to 2.2.5.12.
ASTM	F 628-06e1	Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core	Table A-2.2.5, 2.2.6. and 2.2.7.
ASTM	F 714-06a	Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter	Table A-2.2.5, 2.2.6. and 2.2.7.
AWWA	2004	Manual M14, Recommended Practice for Backflow Prevention and Cross-Connection Control	A-2.6.2.4.(2)
AWWA	ANSI/AWWA C151/A21.51-2002	Ductile-Iron Pipe, Centrifugally Cast, for Water or Other Liquids	Table A-2.2.5, 2.2.6. and 2.2.7.
CCBFC	NRCC 47666	National Building Code of Canada 2005	Table A-2.2.5, 2.2.6. and 2.2.7. A-2.4.10. A-2.4.10.4.(1)
CGSB	CAN/CGSB-34.1-94	Asbestos-Cement Pressure Pipe	Table A-2.2.5, 2.2.6. and 2.2.7.
CGSB	CAN/CGSB-34.9-94	Asbestos-Cement Sewer Pipe	Table A-2.2.5, 2.2.6. and 2.2.7.
CGSB	CAN/CGSB-34.22-94	Asbestos-Cement Drain Pipe	Table A-2.2.5, 2.2.6. and 2.2.7.
CGSB	CAN/CGSB-34.23-94	Asbestos-Cement House Connection Sewer Pipe	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	A60.1-M1976	Vitrified Clay Pipe	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	CAN/CSA-A257.1-03	Non-Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	CAN/CSA-A257.2-03	Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe, and Fittings	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	CAN/CSA-B64.4.1-01	Backflow Preventers, Reduced Pressure Principle Type for Fire Systems (RPF)	Table A-2.6.2.4.(2)
CSA	CAN/CSA-B64.5.1-01	Backflow Preventers, Double Check Valve Type for Fire Systems (DCVAF)	Table A-2.6.2.4.(2)
CSA	CAN/CSA-B64.6.1-01	Backflow Preventers, Dual Check Valve Type for Fire Systems (DuCF)	Table A-2.6.2.4.(2)
CSA	CAN/CSA-B64.9-01	Backflow Preventers, Single Check Valve Type for Fire Systems (SCVAF)	Table A-2.6.2.4.(2)

Table A-1.3.1.2.(1) (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
CSA	CAN/CSA-B64.10.1-01	Manual for the Maintenance and Field Testing of Backflow Prevention Devices	A-2.6.2.1.(3)
CSA	B70-06	Cast Iron Soil Pipe, Fittings, and Means of Joining	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	CAN/CSA-B125.3-05	Plumbing Fittings	A-2.6.1.11.(1)
CSA	CAN/CSA-B127.1-99	Asbestos Cement Drain, Waste and Vent Pipe and Pipe Fittings	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B127.2-M1977	Components for Use in Asbestos Cement Building Sewer Systems	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B137.1-05	Polyethylene (PE) Pipe, Tubing, and Fittings for Cold-Water Pressure Services	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B137.2-05	Polyvinylchloride (PVC) Injection-Moulded Gasketed Fittings for Pressure Applications	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B137.3-05	Rigid Polyvinyl Chloride (PVC) Pipe for Pressure Applications	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B137.5-05	Crosslinked Polyethylene (PEX) Tubing Systems for Pressure Applications	Table A-2.2.5, 2.2.6. and 2.2.7. A-2.2.5.7.(1)
CSA	B137.6-05	Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing, and Fittings for Hot- and Cold-Water Distribution Systems	Table A-2.2.5, 2.2.6. and 2.2.7. A-2.2.5.10. to 2.2.5.12.
CSA	B137.9-05	Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-Pipe Systems	Table A-2.2.5, 2.2.6. and 2.2.7. A-2.2.5.13.(1)
CSA	B137.10-05	Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Composite Pressure-Pipe Systems	Table A-2.2.5, 2.2.6. and 2.2.7. A-2.2.5.14.(1)
CSA	B137.11-05	Polypropylene (PP-R) Pipe and Fittings for Pressure Applications	Table A-2.2.5, 2.2.6. and 2.2.7. A-2.2.5.15.(1)
CSA	B181.1-06	Acrylonitrile-Butadiene-Styrene (ABS) Drain, Waste, and Vent Pipe and Pipe Fittings	Table A-2.2.5, 2.2.6. and 2.2.7. A-2.2.5.10. to 2.2.5.12.
CSA	B181.2-06	Polyvinylchloride (PVC) and Chlorinated Polyvinylchloride (CPVC) Drain, Waste, and Vent Pipe and Pipe Fittings	Table A-2.2.5, 2.2.6. and 2.2.7. A-2.2.5.10. to 2.2.5.12.
CSA	B181.3-06	Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B182.1-06	Plastic Drain and Sewer Pipe and Pipe Fittings	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B182.2-06	PSM Type Polyvinylchloride (PVC) Sewer Pipe and Fittings	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B182.4-06	Profile Polyvinylchloride (PVC) Sewer Pipe and Fittings	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B182.6-06	Profile Polyethylene (PE) Sewer Pipe and Fittings For Leak-Proof Sewer Applications	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	B182.7-06	PSM Type Multilayer Polyvinylchloride (PVC) Sewer Pipe Having Reprocessed-Recycled Content	Table A-2.2.5, 2.2.6. and 2.2.7.
CSA	G401-01	Corrugated Steel Pipe Products	Table A-2.2.5, 2.2.6. and 2.2.7.

Table A-1.3.1.2.(1) (Continued)

Issuing Agency	Document Number	Title of Document	Code Reference
McGraw-Hill	2006	International Plumbing Codes Handbook, R. Dodge Woodson	A-2.6.3.
NIST	Building Materials and Structures Report BMS-79, 1941	Water-Distributing Systems for Buildings, R. B. Hunter	A-2.6.3.

A-2.1.2.1.(2) Combined Building Drains. Combined building drains may have proven acceptable on the basis of past performance in some localities and their acceptance under this Code may be warranted.