



Ontario's 2012 Building Code
Division B, Part 7
Ontario Regulation 332/12

Notice:

This e-Learning module is intended for general information purposes only. It only highlights certain provisions of the 2012 Building Code. Code users are advised to consult the source documents, including:






- [The Building Code Act, 1992](#); and
- [The 2012 Building Code \(O. Reg. 332/12\)](#)

These documents are available from:

- [e-Laws](#) (official versions of the Act and Code)
- [Publications Ontario](#) sells a compendium (Act, Code and additional materials)

Overview

Division B, Part 7

LEGEND			
Symbol		Denotes	
	-	Revision	
	-	Moved/incorporated	
	-	New/expanded	
	-	Deletion	
 {2006}-	.2.3.4.(5)	-	2006 Building Code Reference



Division B

7.1.5.3.(2)

Water Distribution Systems:

Revised to require storm sewage and greywater that is reused to also be treated to conform to Article 7.7.4.1.



Division B

7.1.5.3.(3)

Water Distribution Systems:

Requirements for rainwater harvesting systems have been introduced to the Building Code



Division B

7.1.5.5.

Private Sewers and Private Water Supply:

Revised to update design guidelines for private water supply pipes and private sewers



Division B

7.2.3.1.(3)

Traps:

Amended to permit a cleanout to be installed above the floor when the trap is below the floor and not accessible



Division B

7.2.3.2.(3)

Interceptors:

New standards have been added for grease interceptors



Division B

7.2.5.5.(1) & Table 7.2.11.2

Polyethylene Pipe and Fittings:

Amended to permit polyethylene water pipe, tubing and fittings with series 160 or greater pressure rating

Division B

{2006}-7.2.5.10.(1)(h)

CAN/CSA-B182.7 standard no longer referenced



Division B

7.2.7.4.(4)

Copper Tube:

Type K or L copper tube is required for the potable water side of a heat exchanger in a pre-engineered wastewater heat recovery system



Division B 7.2.9.2.(4)

Solder and Fluxes:

Amended to specify the required brazing alloys standard and relocate requirements for joints in copper tubes



Division B 7.2.10.7.(1)

Linings and Coatings of Domestic Water Tanks:

Linings and coatings of potable domestic water tanks must now be certified to NSF/ANSI 61 “Drinking Water System Components – Health Effects” standard



Division B

7.2.10.14.(1)

Vent Pipe Flashing:

Minimum flashing material thickness for vent pipes amended:

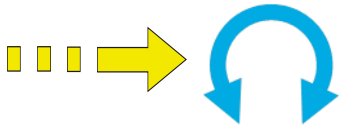
- aluminum sheet {0.61} \Rightarrow 0.48 mm
- lead sheet {2.16} \Rightarrow 1.73 mm
- galvanized steel sheet {0.41} \Rightarrow 0.33 mm



Division B 7.2.10.17.

Drinking Water Treatment Systems:

Drinking water treatment systems must be certified to the CAN/CSA-B483.1 “Drinking Water Treatment Systems” standard



Division B 7.3.3.12.

Copper Joints Used Underground:

Requirements for joints in copper tubes installed underground have been amended and relocated



Division B

7.3.6.1.(6)

Tests and Inspection of Drainage or Venting Systems:

New provision added regarding inspection and testing of a sewer lateral extension



Division B

7.4.2.1.(4)

Connections to Sanitary Drainage Systems:

Limits for soil or waste pipe connections in a suds pressure zone have been added



Division B

7.4.2.1.(5)

Connections to Sanitary Drainage Systems:

Controls for vent pipe connections in a suds pressure zone have been introduced



Division B

7.4.2.2.

Connection of Overflows from Rainwater Tanks:

Overflow from rainwater tanks can now be connected to a storm drainage system



Division B

7.4.6.4.(3)

Protection from Backflow:

New requirements for backwater valve added if the public sanitary sewer system may be subject to backflow



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7.4.7.1.(10)

Cleanouts for Drainage Systems:

Amended requirement for the installation of cleanouts for kitchen sinks



Division B

7.4.8.1.(1)

Minimum Slope:

Clarify application of the minimum 1 in 50 slope to only apply to drainage pipe that is $\leq 3''$



Divisoin B

7.4.9.2.(5)

Serving Water Closets:

Added 1000 mm maximum length of vertical leg of certain drainage pipes



Division B

Table 7.4.9.3.

Size of Fixture Outlet Pipes:

Size of standpipe and trap sizes for clothes washers has been increased (from 1.5 inch to 2 inch trap).

Item	Column 1	Column 2	Column 3
	Fixture	Minimum Size of Fixture Outlet Pipe, in.	Hydraulic Load, fixture units
9	Clothes washer		
	(a) Domestic	N/A	1 ½ with 2 in. trap
	(b) Commercial	N/A	2 with 2 in. trap



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7.4.10.4.(2)

Hydraulic Loads from Roofs or Paved Surfaces:
Amended to include additional requirements for
roof scuppers




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7.4.10.4.(3)

Hydraulic Loads from Roofs or Paved Surfaces:

Requirements for emergency roof overflow or scuppers have been introduced

Division B

 {2006}-7.4.10.6.(4) & Table 7.4.10.6.B

- Sentence and Table removed for clarity as items already covered in Table 7.4.10.6.



Division B

Table 7.4.10.9.

Maximum Permitted Hydraulic Load Drained to a Horizontal Storm Drainage Pipe:

Design solution for a 3 inch horizontal storm drainage pipe drain with a slope of 1 in 68 has been removed



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7.5.2.1.(1)(i) & (k)

Wet Venting:

Requirements for wet venting clarified



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7.5.4.2.(1)

Vent Stacks:

Vent stacks only required where the soil or waste stack drains fixtures from more than 4 storeys



Division B

Table 7.5.6.3.

Length of Trap Arm:

Maximum trap arm length modified

Item	Column 1	Column 2	Column 3
	Size of Trap Served, in.	Maximum Trap Arm, m	Minimum Slope
1	1 ¼	1.5	1 in 50
2	1 ½	{1.5} ⇒ 1.8	1 in 50
3	2	{1.5} ⇒ 2.4	1 in 50
4	3	{1.8} ⇒ 3.6	1 in 50
5	4	{3} ⇒ 4.9	1 in 50
6	{5} ⇒ 4	{4} ⇒ 9.8	1 in {50} ⇒ 100



Division B

7.5.8.3.(1)

Branch Vents, Headers, Continuous Vents and Circuit Vents:

Revised to clarify that Table 7.5.8.3. does not apply to individual or dual vents

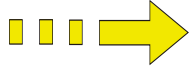


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Table 7.5.8.4.

- **Size and Developed Length of Stack Vents and Vent Stacks:**
- Changes to 1 ½ and 2” soil or waste stacks

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	
<i>Size of Soil or Waste stack, in.</i>	<i>Total Hydraulic Load Being Vented, fixture units</i>	<i>Water Occupied Area</i>	<i>Size of Stack Vent or Vent Stack, in.</i>					
			1 ¼	1 ½	2	3	4	
			<i>Maximum Length of Stack Vent or Vent Stack, m</i>					
1 ¼	2	0.29	9					
1 ½	8	0.25	15	46				
	{10}	{0.29}	{9}	{30.5}				
2	12	0.25	9	23	61			
	{20} ⇒ 24	0.29	8	15	46			

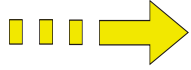


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{2006}-7.6.1.1.(1)

Design standards for potable water systems relocated to 7.6.3.1.(2)

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Division B

7.6.2.3.

Protection from Backflow:

Most backflow preventer requirements in Article 7.6.2.4. of the 2006 Building Code have been relocated to Article 7.6.2.3.

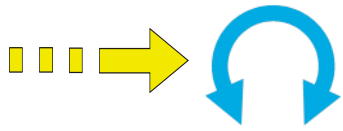


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7.6.2.5.(3)

Backflow from Buildings with a Solar Domestic Hot Water System:

Backflow preventer requirements for solar domestic water systems clarified



Division B

7.6.2.6.

Premise Isolation:

Premise isolation requirements in Article 7.6.2.4. of the 2006 Building Code have been relocated and amended



Division B 7.6.3.

Size and Capacity of Pipes:

Significant changes with respect to hydraulic loading, types of fixtures and water velocities



Division B

Table 7.6.4.1.

Maximum Flow Rates for Water Supply Fittings:

Maximum flow rate for shower heads in residential occupancies reduced from 9.5 to 7.6 L/min



Division B

Tables 7.6.4.2.A. & B.

Maximum Water Consumption per Flush Cycle for Sanitary Fixtures:

Maximum water consumption per flush cycle for urinals reduced from 3.8 to 1.9 LPF in all buildings



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Table 7.6.4.2.B.

Maximum Water Consumption per Flush Cycle for Sanitary Fixtures in a Group C Occupancy:

Maximum water consumption per flush cycle for water closets in residential occupancies:

- reduced from 6.0 to 4.8 LPF, or
- dual flush option permitted



Division B

7.7.1.1.(2) & (3)

Non-Potable Connection:

Additional requirements for the connection of non-potable water and potable water systems



Division B

7.7.2.1.(2) & (3)

Markings Required:

New prescriptive marking requirements for re-use of non-potable water systems



Division B

7.7.4.1.

Conformance to Standards:

Non-potable water systems for re-use purposes must be designed, constructed and installed to good engineering practice

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- [Contact us](#) at codeinfo@ontario.ca or by dialling 416-585-6666 (TTY 1-866-220-2290 for the hearing impaired)