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

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Denotes</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔥</td>
<td>Revision</td>
</tr>
<tr>
<td>⚙️</td>
<td>Moved/incorporated</td>
</tr>
<tr>
<td>🍀</td>
<td>New/expanded</td>
</tr>
<tr>
<td>🔴</td>
<td>Deletion</td>
</tr>
<tr>
<td>{2006}</td>
<td>2006 Building Code Reference</td>
</tr>
</tbody>
</table>
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
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 \text{ mm}
• lead sheet \{2.16\} \rightarrow 1.73 \text{ mm}
• galvanized steel sheet \{0.41\} \rightarrow 0.33 \text{ 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
Copper Joints Used Underground:
Requirements for joints in copper tubes installed underground have been amended and relocated.
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
Connections to Sanitary Drainage Systems:
Controls for vent pipe connections in a suds pressure zone have been introduced
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
Division B

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 ≤ 3”
Serving Water Closets:
Added 1000 mm maximum length of vertical leg of certain drainage pipes
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).

<table>
<thead>
<tr>
<th>Item</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Clothes washer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a)</td>
<td>Domestic</td>
<td>N/A</td>
<td>1 ½ with 2 in. trap</td>
</tr>
<tr>
<td>(b)</td>
<td>Commercial</td>
<td>N/A</td>
<td>2 with 2 in. trap</td>
</tr>
</tbody>
</table>
Division B
7.4.10.4.(2)

Hydraulic Loads from Roofs or Paved Surfaces:
Amended to include additional requirements for roof scuppers
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
Wet Venting:
Requirements for wet venting clarified
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

<table>
<thead>
<tr>
<th>Item</th>
<th>Column 1</th>
<th>Column 2</th>
<th>Column 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Size of Trap Served, in.</td>
<td>Maximum Trap Arm, m</td>
<td>Minimum Slope</td>
</tr>
<tr>
<td>1</td>
<td>1 ¼</td>
<td>1.5</td>
<td>1 in 50</td>
</tr>
<tr>
<td>2</td>
<td>1 ½</td>
<td>{1.5} ⇒ 1.8</td>
<td>1 in 50</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>{1.5} ⇒ 2.4</td>
<td>1 in 50</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td>{1.8} ⇒ 3.6</td>
<td>1 in 50</td>
</tr>
<tr>
<td>5</td>
<td>4</td>
<td>{3} ⇒ 4.9</td>
<td>1 in 50</td>
</tr>
<tr>
<td>6</td>
<td>{5} ⇒ 4</td>
<td>{4} ⇒ 9.8</td>
<td>1 in {50} ⇒ 100</td>
</tr>
</tbody>
</table>
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
Division B

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

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

Maximum Length of Stack Vent or Vent Stack, m
Division B
{2006}-7.6.1.1.(1)

Design standards for potable water systems relocated to 7.6.3.1.(2)
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.
Division B
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.
Division B  
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
More Information

- [www.ontario.ca/BuildingCode](http://www.ontario.ca/BuildingCode)
- Sign up for [Code News](http://Code News)
- Follow us on [Twitter](http://Twitter)
- Buy the Building Code from [ServiceOntario Publications](http://ServiceOntario Publications) or view on [e-Laws](http://e-Laws) (O. Reg. 332/12)
- Contact your [local municipality](http://local municipality)
- [Contact us at codeinfo@ontario.ca](mailto:codeinfo@ontario.ca) or by dialling 416-585-6666 (TTY 1-866-220-2290 for the hearing impaired)