

**Ontario Plumbing Inspectors Association**  
**Plumbing Update, Ontario Regulation 88/19**

| O. Reg.88/19   | New or Update   | Explanation                    |
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| 4.1.6.1.   | <p><b>4.1.6.1. Transition Rule</b></p> <p>(1) Subject to Sentence (2), this Regulation, as it read on December 31, 2019, is deemed to continue in force with respect to <i>construction</i> for which a permit has been applied for before January 1, 2020.</p>   | Implementation                 |
| 7.2.2.2.(8)  | <p>(8) Macerating toilet systems shall conform to ASME A112.3.4 / CSA B45.9, "Plumbing Fixtures with Pumped Waste and Macerating Toilet Systems".</p>   | Change to Title of Standard    |
| 7.2.3.2.   | <p>(4) Grease <i>interceptors</i> shall be selected and installed in conformance with,</p> <p>(a) CSA B481.0, "Material, Design, and Construction Requirements for Grease Interceptors", and</p> <p>(b) CSA B481.3, "Sizing, Selection, Location, and Installation of Grease Interceptors".</p>   | New sentence                   |
| 7.2.5.3.(2), 7.2.5.3.(5), 7.2.5.5.(1)<br>7.2.5.6.(1), 7.2.5.7.(1), 7.2.5.8.(1)<br>7.2.5.9.(1)  | "CSA-....."   | Replacement of "CAN/CSA-....." |
| 7.2.5.9.(2)  | <p>(2) The design temperature and design pressure of a CPVC piping system shall conform to Table 7.2.5.9.</p> <p><b>Table 7.2.5.9. Maximum Permitted Pressure for CPVC Piping at Various Temperatures</b></p>   | Replace sentence and new table |
| 7.2.5.10.(1)   | <p>(g.1) CAN/CSA-B182.8, "Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings", for Type 1 joints and non-perforated pipes,</p>  | New Clause                     |
| 7.2.5.10.(1)(h), 7.2.5.10.(1)(i),<br>7.2.5.13.(1), 7.2.5.13.(4),<br>7.2.5.14.(1), 7.2.5.15.(1) | "CSA-....."   | Replacement of "CAN/CSA-....." |
| 7.2.6.1.   | <p>(3) Cast iron frames and covers for maintenance holes and catch basins shall conform to CAN/CSA-B70.1, "Frames and Covers for Maintenance Holes and Catchbasins".</p>  | New sentence                   |
| 7.2.6.2.   | <p><b>7.2.6.2. Reserved</b></p> <p>Article Removed for Cast Iron Fittings for Asbestos-Cement Drainage Pipe</p>   | Article Removed                |
| 7.2.6.10.  | <p><b>7.2.6.10. Stainless Steel Pipe</b></p> <p>(1) Stainless steel pipe shall conform to,</p> <p>(a) ASME B36.19M, "Stainless Steel Pipe", and</p> <p>(b) ASTM A312 / A312M, "Seamless, Welded, and Heavily Cold Worked Stainless Steel Pipes".</p> <p>(2) Only grade 304/304L or 316/316L stainless steel pipe shall be used.</p>   | New Article                    |
| 7.2.6.11.  | <p><b>7.2.6.11. Stainless Steel Butt Weld Pipe Fittings</b></p> <p>(1) Stainless steel butt weld pipe fittings shall conform to,</p> <p>(a) ASME B16.9, "Factory-Made Wrought Buttwelding Fittings", and</p> <p>(b) ASTM A403 / A403M, "Wrought Austenitic Stainless Steel Piping Fittings".</p> <p>(2) Stainless steel butt weld pipe fittings shall be made of a material that matches the grade of the pipe material used.</p> | New Article                    |

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| 7.2.6.12.                          | <p><b>7.2.6.12. Stainless Steel Pipe Flanges</b></p> <p>(1) Stainless steel pipe flanges shall,</p> <p>(a) conform to ASME B16.5, "Pipe Flanges and Flanged Fittings: NPS ½ through NPS 24 Metric/Inch Standard", and</p> <p>(b) conform to ASTM A182 / A182M, "Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service", or AWWA C228, "Stainless-Steel Pipe Flanges For Water Service – Sizes 2 in. through 72 in. (50 mm through 1 800 mm)".</p> <p>(2) Stainless steel pipe flanges shall be made of a material that matches the grade of the pipe material used.</p> | New Article   |
| 7.2.6.13.                          | <p><b>7.2.6.13. Stainless Steel Threaded Fittings</b></p> <p>(1) Stainless steel threaded fittings shall be Schedule 40 or greater and shall conform to,</p> <p>(a) ASTM A182 / A182M, "Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service", or</p> <p>(b) ASTM A351 / A351M, "Castings, Austenitic, for Pressure-Containing Parts".</p> <p>(2) Stainless steel threaded fittings shall be made of a material that matches the grade of the pipe material used.</p>  | New Article   |
| 7.2.6.14.                          | <p><b>7.2.6.14. Stainless Steel Tube</b></p> <p>(1) Stainless steel tube shall conform to,</p> <p>(a) ASME B16.9, "Factory-Made Wrought Buttwelding Fittings", and</p> <p>(b) ASTM A269, "Seamless and Welded Austenitic Stainless Steel Tubing for General Service".</p> <p>(2) Only grade 304/304L or 316/316L stainless steel tubes shall be used.</p>   | New Article   |
| 7.2.6.15.                          | <p><b>7.2.6.15. Stainless Steel Pipe and Tube</b></p> <p>(1) The use of stainless steel pipe and tube shall conform to Table 7.2.6.15.</p> <p><b>Table 7.2.6.15. Permitted Use of Stainless Steel Tube and Pipe</b></p>   | New Article and New Table   |
| 7.2.7.4.                           | <b>Table 7.2.7.4. Permitted Use of Copper Tube and Pipe</b>   | Replacement Table has altered headings                            |
| 7.2.7.4.                           | <p>(5) Copper tube shall not be used for the <i>fixture drain</i> or the portion of the <i>vent pipe</i> below the <i>flood level rim</i> of manually flushing or waterless urinals.</p> <p><b>Note: Automatic means no motion needed to activate the sensor on the flush valve</b></p>   | New Sentence restricting use of Copper on Manual Flushing Urinals |
| 7.2.8.1.(1)(b)                     | "Borosilicate" replaces "Boronsilicate"   | Word Edit   |
| 7.2.9.2.(4)                        | "Specification for ....." removed leaving<br>"Filler Metals for Brazing and Braze Welding"  | Edit  |
| 7.2.10.2.(1)(a)<br>7.2.10.2.(1)(b) | "floor flange" replaces "water closet flange"   | Word removed  |
| 7.2.10.4.(2)                       | "CSA-....."   | Replacement of "CAN/CSA-....."                                    |
| 7.2.10.11.(1)                      | "ANSI Z21.22 / CSA 4.4".  | "...-M" removed   |
| 7.2.10.13.(1)                      | <b>"Packaged Solar Domestic Hot Water Systems (Liquid-to-Liquid Heat Transfer) for All-Season Use"</b>  | "... for All-Season Use" added                                    |

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| Table 7.2.11.2             | “CSA-.....”   | Replacement of “CAN/CSA-.....”                               |
| 7.3.2.8.                   | <p><b>7.3.2.8. Stainless Steel Welded Joints</b></p> <p>(1) Stainless steel welded joints shall conform to ASME B31.9, “Building Services Piping”.</p> <p>(2) Butt weld pipe fittings shall be at least as thick as the wall of the pipe used.</p>  | New Article  |
| 7.3.3.8.(1)                | <p><b>“by a floor flange or other means of connection”</b></p> <p>replaces “by a floor flange”</p>  | Sentence Edited  |
| 7.3.3.8.(4)                | <p>(4) Every floor flange and <i>fixture</i> shall be securely set on a firm base and <b>fastened to the floor or trap</b> flange of the <i>fixture</i>.</p> <p>“... fastened to the floor or ...” replaces “... bolted to the ...” and “<i>fixture</i>” moved.</p> <p>Second part of <b>Sentence (4)</b> removed</p> <p>“... and every joint shall be sealed with a natural rubber, synthetic rubber gasket, or with a closet setting compound.”</p> <p>and reworded as <b>Sentence (4.1)</b></p> <p><b>(4.1) Every joint in a floor flange or between a <i>fixture</i> and the drainage system shall be sealed with a resilient, watertight and gas-tight seal.</b></p> | Sentence (4) Edited and new Sentence (4.1)                   |
| 7.3.4.3.(1)                | <p><b>“from the pipe or tube to prevent galvanic action”</b></p> <p>replaces “from the pipe to prevent galvanic action”</p>   | Edit, “... or tube ...” added                                |
| 7.3.4.3.                   | <p>(2) Where a hanger or support for stainless steel pipe or tube is of a material other than stainless steel, it shall be suitably separated and electrically insulated from the pipe or tube.</p>   | New Sentence   |
| 7.3.4.5.(2)(d)             | (d) Reserved  | Clause reserved  |
| 7.3.4.5.(2)                | <p>(m) stainless steel pipe or tube is supported at intervals not exceeding,</p> <p>(i) 3 000 mm if the pipe or tube size is 1 in. or more, and</p> <p>(ii) 2 500 mm if the pipe or tube size is less than 1 in.</p>  | “and” moved to Subclause “(l) (iii.)” and Clause “(m)” added |
| 7.3.5.2.(1)                | <p>strike out <b>“asbestos-cement drainage pipe or”</b></p> <p>Removal of Asbestos-Cement Drainage Piping</p>   | Removal  |
| 7.5.5.5.(2)                | <p>(2) Except as required in Sentence 7.5.7.7.(2), where a <i>plumbing system</i> is installed in a <i>building</i>, every <i>storey</i> in which <i>plumbing</i> is or may be installed, including the <b>basement of the building</b>, shall have extended into it or passing through it a <i>vent pipe</i> that is at least 1 ½ in. in size for the provision of future connections.</p> <p><b>“... basement of the building ...”</b></p> <p>replaces “basement of a house”</p>  | Sentence Edited  |
| 7.5.9.1.(1)                | <p><b>“Individual vents and dual vents are permitted to”</b></p> <p>replaces “<i>Individual vents</i> may”</p>  | Sentence Edited  |
| 7.6.2.5.(3)<br>7.6.2.5.(4) | <b>“Packaged Solar Domestic Hot Water Systems (Liquid-to-Liquid Heat Transfer) for All-Season Use”</b>  | “... for All-Season Use” added                               |
| 7.6.2.6.(3)                | “CSA-.....”   | Replacement of “CAN/CSA-.....”                               |

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| 7.6.2.10.(1)     | <b>“atmospheric vacuum breaker, pressure vacuum breaker or spill-resistant pressure vacuum breaker”</b><br>replaces “atmospheric vacuum breaker or pressure vacuum breaker”  | Sentence Edited                         |
| 7.6.2.10.(4)     | <b>“A pressure vacuum breaker or spill-resistant pressure vacuum breaker”</b><br>replaces “A pressure vacuum breaker”  | Sentence Edited                         |
| Table 7.6.4.1.   | <b>Table 7.6.4.1. Maximum Flow Rates for Water Supply Fittings</b><br><b>“Lavatory Faucets in Residential Occupancy now 5.7 L/min”</b><br><b>“Lavatory Faucets in Other Occupancies now 1.9 L/min”</b><br>replaces Lavatory Faucet - 8.35 L/min  | Flow rates for Lavatory Faucets Changed |
| 7.6.4.1.         | (3) Each lavatory in a washroom with <i>fixtures for public use</i> shall be equipped with a device capable of automatically shutting off the flow of water when the lavatory is not in use.<br>(4) An automatic compensating valve serving an individual shower head shall have a manufacturer’s minimum-rated water flow rate equal to or less than the shower head it serves.<br>(5) Where multiple shower heads installed in a public showering facility are served by one temperature control, each shower head shall be equipped with a device capable of automatically shutting off the flow of water when the shower head is not in use. | New Sentences                           |
| Table 7.6.4.2.A. | Revoking the Notes to the Table and by striking out “ (1) ” wherever it appears in Column 2 of the Table.  | Notes Removed                           |
| Table 7.6.4.2.B. | Revoking the Notes to the Table and by striking out “ (2) ” wherever it appears in Column 2 of the Table.  | Note Removed                            |
| 7.6.4.2.         | (5) Urinals shall be equipped with a device capable of preventing automatic flush cycles when not in use.  | New Sentence                            |
| 7.6.5.2.(2)      | (2) An individually pressure-balanced or thermostatic-mixing valve <b>is not required for shower heads having a single tempered water supply that is controlled by an automatic compensating valve</b> conforming to CSA B125.3, “Plumbing Fittings”.<br>Replaces “... shall not be required for showers if a single temperature water supply for such showers is controlled by a master thermostatic-mixing valve ...”  | Sentence Edited                         |
| 7.6.5.2.(3)      | “... <b>Sentences (1) and (4)</b> ”. replaces “... Sentence (1)”   | Sentence Edited                         |
| 7.6.5.2.(4)      | (4) Pressure-balanced, thermostatic-mixing <b>or combination pressure-balanced and thermostatic-mixing type</b> valves shall be,<br>(a) <b>capable of limiting thermal shock</b> , and<br>(b) designed so that the outlet temperature does not exceed 49°C or equipped with high-limit stops which shall be adjusted to a maximum hot water setting of 49°C.   | Sentence Edited                         |
| 8.7.3.2.(1)(d)   | (d) centred not less than,<br>(i.) 1 600 mm apart where used in conjunction with,<br>(A) a <i>distribution pipe</i> ,<br>(B) a Type I <i>leaching chamber</i> , or<br>(C) a Type II <i>leaching chamber</i> constructed in <i>leaching bed fill</i> ,<br>or<br>(ii.) 2 400 mm apart where used in conjunction with a Type II <i>leaching chamber</i> , other than a Type II <i>leaching chamber</i> constructed in <i>leaching bed fill</i> ,  | Sentence Edited, new Sub-Clauses        |