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| **PLUMBING**  **Local Amendments**  **To the**  **8th Edition 2023 Florida Building Code** | | | | | | | |
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| **JURISDICTION** | **DOCUMENT with**  **TECHNICAL**  **AMENDMENTS** | | **TEXT OF TECHNICAL AMENDMENETS** | | | **TAC**  **REVIEW** | | |
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| Broward County | RESIDENTIAL  [https://floridabuilding.org/Upload/FB C/Co deID\_7785\_f5b4\_Broward%20Cou nty%20Local%20Amends%20to%208th%20Ed%20FBC%202023%20RESIDENTIAL-Ch%2029%20-%20-2023-12-29.pdf](https://floridabuilding.org/Upload/FB%20C/Co%20deID_7785_f5b4_Broward%20Cou%20nty%20Local%20Amends%20to%208th%20Ed%20FBC%202023%20RESIDENTIAL-Ch%2029%20-%20-2023-12-29.pdf) | | **TABLE P2903.2**  **MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES, AND FIXTURE FITTINGS b AND APPLIANCES**   |  |  | | --- | --- | | PLUMBING FIXTURE  OR FIXTURE FITTING | MAXIMUM FLOW RATE  OR QUANTITY | | Lavatory faucet | ~~2.2~~ **1.5** gpm at 60 psi | | Shower head a | ~~2.0~~ **2.2** gpm at 80 psi | | Sink faucet | 2.2 gpm at 60 psi | | Water closet | ~~1.6~~ **1.28** gallons per flushing cycle | | Dishwasher (Residential) | **6.5 gallons per cycle or less (Energy**  **Star/Watersense Certified) (c)** | | **Washing Machine** | **Water factor or 8 or lower (Energy**  **Star/Watersense Certified) (c)** |   For SI: 1 gallon per minute = 3.785 L/m.  1 pound per square inch = 6.895 kPA.  a. A handheld shower spray is also a shower head.  b. Consumption tolerances shall be determined from referenced standards.  c. Water factor in gallons per cycle per cubic foot  Exception: All fixtures, fittings and appliances with U.S. Environmental Agency WaterSense® (EPA) Label | | |  | | |
| Pinellas County Construction Licensing Board | [https://floridabuilding.org/U pload/FBC/CodeID\_7866\_bd50\_P2903.1.pdf](https://floridabuilding.org/U%20pload/FBC/CodeID_7866_bd50_P2903.1.pdf) | | **P2903.1 Water supply system design criteria**. The water service and water distribution systems shall be designed and sized for peak demand, using values shown in **Table P2903.1**  **EXCEPTION: For one-family, two-family, or three-family residential dwellings, when the building owner approves in writing, one bathroom group may be added to the existing hot and cold water distribution system, not to exceed a maximum of eight drainage fixture units for any fixtures added, in no case shall the additional fixtures be connected to existing hot and/or cold piping that is less than 3/4 “ in diameter.**  **P2903.1.1 Applicable Sizes. The requirements of P2903.1 in the following sizes shall apply when connected an existing approved potable system.**   1. **All Building Department permitted and approved onsite portable drinking water piping two-inch (2”) diameter and greater than one hundred fifty (150) lineal feet in length.** 2. **All Building Department permitted and approved onsite potable drinking water piping of greater than two-inch (2”) diameter and greater than fifty (50) lineal feet in length.** 3. **All Building Department permitted and approved onsite potable drinking water piping size(s) and length(s) adequate to contain twenty (20) gallons or more. (Volume = .04.8 x diamiter2 x length in feet).** 4. **Any size or length water pipe that has been subjected to contamination will require disinfection.** | | |  | | |
| Pinellas County Construction Licensing Board | **Plumbing**  <https://floridabuilding.org/bc/bc_dtl.aspx?param=Hpnk%2bGv2VscuIf5Zwlwq9WeECXWIGA4G> | | **SECTION 610 DISINFECTION OF POTABLE WATER SYSTEM**  **610.2 Applicable Size**s. The requirements of 610.1 in the following sizes shall apply when connected to an existing approved potable system.   1. All Building Department permitted and approved onsite potable drinking water piping two-inch (2”) diameter and greater than one hundred fifty (150) lineal feet in length. 2. All Building Department permitted and approved onsite potable drinking water piping of greater than two-inch (2”) diameter and greater than fifty (50) lineal feet in length. 3. All Building Department permitted and approved onsite potable drinking water piping in size(s) and length(s) adequate to contain twenty (20) gallons or more. (Volume = .0408 x diameter x length in feet). 4. Any size or length water pipe that has been subjected to contamination will require disinfection. | | |  | | |
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| Pinellas County Construction Licensing Board | **RESIDENTIAL**  <https://floridabuilding.org/Upload/FBC/CodeID_7861_7995_P2903.2.1.pdf> | | **P2903.2.1 Size of Water Service. The minimum size water service pipe shall be ¾” (19 mm) . The size of water service mains, branch, mains and risers shall be as required per Table P2903.2.1**  **TABLE P2903.2.1 MINIMUM WATER SERVICE SIZE**  **TABLE 92903.2.1**  **MINIMUM WATER SERVICE SIZE**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | **NO. OF**  **FIXTURE**  **UNITS**  **FLUSH**  **TANK WC** | **DIAMETER OF WATER PIPE** | **RECOMMENDED**  **METER SIZE**  **(inches)** | **APPROX**  **PRESSURE**  **LOSS METER**  **+100’ PIPE**  **(psi)** | **NO. OF**  **FIXTURE**  **UNITS FLUSH**  **VALVE WC** | | **18** | **3/4** | **5/8** | **30** | **-** | | **19-55**  **=** | **1**  **1** | **1**  **1** | **30**  **30** | **=**  **9** | | **56-85**  **=** | **1 ¼**  **1 ¼** | **1**  **1** | **30**  **30** | **=**  **10-20** | | **8-225**  **=** | **1 ½**  **1 ½** | **1 ½**  **1 ½** | **30**  **30** | **=**  **21-77** | | **226-350**  **=** | **2**  **2** | **1 ½**  **1 ½** | **30**  **30** | **=**  **78-175** | | **351-550**  **=** | **2**  **2** | **2**  **2** | **30**  **30** | **=**  **176-315** | | **551-640**  **=** | **2 ½**  **2 ½** | **2**  **2** | **30**  **30** | **=**  **316-392** | | **641-1340**  **=** | **3**  **3** | **3**  **3** | **22**  **22** | **=**  **393-940** |   **ADD TABLE FOOTNOTES**   1. **Table is applicable for both copper and plastic water piping.** 2. **See Table P3004.1 for fixture unit values.** 3. **Minimum water service shall be ¾” to control valve.** 4. **All secondary submeters and backflow assemblies shall be at least the same size as the line in which they are installed.** 5. **Table based on minimum water main pressure of 50 psi.** 6. **Minimum sizes for fixture supply prpe from the main or from the riser shall be from the Florida Building Code 8th Edition (2023) – Plumbing Section 604.5** 7. **Four (4) fixtures maximum (hot or cold) may connect to a one-half inch fixture water supply or as required by manufacturers’ installation instructions.** 8. **Where the water main pressure falls below 50 psi the next larger pipe size shall be used.** 9. **Buildings above three (3) stories in height shall use the next larger pipe size.** | | |  | | |
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| County of  Miami-Dade | **PLUMBING**  <https://floridabuilding.org/Upload/FBC/CodeID_7562_0d57_Ord%2023-70%20Submeters%202023.pdf> | | **This substitute differs from the original item by revising Section 602.1.1 of the ordinance to include the AWWA standard C713-19.**  **Sec. 8-31. - Local technical amendments to Florida Building Code.**  **>>(D) The County hereby adopts the following local technical**  **amendments to Chapter 6 (Plumbing) of the Florida Building Code.**  **602.1 General.**  **Structures equipped with plumbing fixtures and utilized for human**  **occupancy or habitation shall be provided with a potable supply of**  **water in the amounts and at the pressures specified in this chapter.**  **In multiple unit properties where two or more units are served by a**  **single master water meter, each unit shall have individual water**  **submeters.**  **602.1.1 Submeters.**  **Submeters and their installation must conform to American Water**  **Works Association (AWWA) Standards C700-20, C708-19, C710-**  **20,<<>> C713-19<<2 >>or C715-18. All submeters must be rated**  **for a minimum working pressure of 150 psi. A shut-off valve must**  **be installed on the water line on the inlet side of the submeter.<<** | | |  | | |
| County of  Miami-Dade  County of  Miami-Dade | **RESIDENTIAL** | | **Plumbing Code**  **604.4 Maximum flow and water consumption.**  **The maximum water consumption flow rates and quantities for al plumbing fixtures, fixture fittings and appliances shall be in accordance with Table 604.4. Effective July 1, 2008, permit applications for new residential and commercial structures shall include high efficiency plumbing fixtures, fixture fittings and appliances as provided in Table 604.4. Such high efficiency plumbing fixtures, fixture fittings and appliances shall comply with the specifications of U.S. Environmental Protection Agency (EPA) WaterSense Program or the Uniform North American Requirements (UNAR) Guidelines and Specifications.**  **Exception:**   1. **Blowout design water closets (3.5 gallons (13L) per flushing cycle).** 2. **Vegetable sprays.** 3. **Clinical sinks (4.5 gallons (17 L) per flushing cycle).** 4. **Service sinks.** 5. **Emergency showers.**   **Table 604.4**  **MAXIMUM FLOW RATES AND CONSUMPTION FOR**  **PLUMBING FIXTURES** ~~AND~~**FIXTURE FITTINGS AND APPLIANCES**   |  |  | | --- | --- | | PLUMBING FIXTURE OR FIXTURE FITTING | **MAXIMUM FLOW RATE OR QUANTITYᵇ** | | Lavatory, private | ~~([2.2~~])>>**1.0**<< gpm at 60 psi | | Lavatory, public (metering) | 0.25 gallon per metering cycle | | Lavatory, public  (other than metering) | 0.5 gpm at 60 psi | | Shower headᵃ | ~~([2.5~~]) >>**1.5**<< gpm at 80 psi | | Sink faucet | ([~~2.2~~}) >>**1.0**<<gpm at 60 psi | | Urinal | **>>Waterless or 0.5<<** ([~~1.0])~~ gallon per flushing cycle | | Water closet | ([~~1.6~~}) >>**1.28**<< gallons per flushing cycle | | **>>Dishwasher (residential)<<**  **>> Dishwasher (commercial)<<**  **>>Under the counter machines<<** | **>>6.5 gallons per cycle or less (Energy Star/Water Sense Certified)<<**  **<<less than 1.2 gallons per rack for fill and dump machines and less than 0.9 gallons per rack for all other types of machines<<**  **>>1.0 gallon or less per rack for high-temperature machines and 1.7 gallons per rack for low-temperature machines<<** | | **>>Washing machine<<** | **>>Water factor of 8 or lower (Energy Star/Water Sense Certified) <<** |   For SI: 1 gallon = 3.785 L, 1 gallon per minute = 3.785 L/m,  1 pound per square inch = 6.895 kPa.  a. A hand-held shower spray is a shower head.  b. Consumption tolerances shall be determined from referenced standards.  **>>c. Water factor in gallons per cycle per cubic foot<<**  **B. The County hereby adopts the following local technical amendments to Chapter 29 (Residential) of the Florida Building Code.**  **P2903.2 Maximum flow and water consumption**  **The maximum water consumption flow rates and quantities for all plumbing fixtures, fixture fittings and appliances shall be in accordance with Table P2903.2a. Effective July 1, 2008, permit applications for new residential structures shall include high efficiency plumbing fixtures, fixture fittings and appliances as provided in Table P2903.2a. Such high efficiency plumbing fixtures, fixture fittings and appliances shall comply with the specifications of U.S. Environmental Protection Agency (EPA) WaterSense Program or the Uniform North American Requirements (UNAR) Guidelines and Specifications.**  **Table P2903.2a**  **MAXIMUM FLOW RATES AND CONSUMPTION FOR**  **PLUMBING FIXTURES >>,<< ([~~AND~~]) FIXTURE FITTINGS AND**  **>>APPLIANCES<<**   |  |  | | --- | --- | | PLUMBING FIXTURE OR FIXTURE FITTING | PLUMBING FIXTURE OR FIXTURE FITTING  **>>MAXIMUM FLOW RATE<<** | | Lavatory faucet | ([~~2.2]~~) **>>1.0<<** gpm at 60 psi | | Shower head | ([~~2.5~~]) **>>1.5<<** gpm at 80 psi | | Sink faucet | ~~([2.2])~~ **>>1.0<<** gpm at 80 psi | | Water closet | ~~([2.2])~~ **>>1.28<< gallons per flushing cycle** | | **>>Dishwasher (residential)<<** | **>>6.5 gallons per cycle or less (Energy Star/ Water Sense Certified)<<** | | **>>Washing Machine<<** | **>>Water faxtor of 8 or lower (Energy Star/Water Sense Certified<<** |   For SI: 1 gallon per minute = 3.785 L/m,  1 pound per square inch = 6.895 kPa.  a. A handheld shower spray shall be considered a shower head.  b. Consumption tolerances shall be determined from referenced standards.  **>> c. Water factor in gallons per cycle per cubic foot<<**  **Section 32-83 of the Code of Miami-Dade County**  **>>Sec. 32-84. Water use efficiency standards manual**  **The Miami-Dade Water and Sewer Department (“MDWASD”), in consultation with the Planning Department and such other applicable county departments and agencies, shall publish a water use efficiency standards manual to achieve maximum water savings in new residential and commercial developments in the incorporated and unincorporated areas of Miami-Dade County. The manual shall be initially published on July 1, 2008 and shall be updated annually on July 1 following approval by the County Commission. Each applicant for water service to a new residential or Dade County shall include in its application every water use efficiency standard that will be incorporated into the new development. The County or applicable municipality shall review the application for compliance with the manual. In evaluating the application for compliance, the County or applicable municipality will consider the availability of products required to implement the water use efficiency standards. The developer’s agreement for water service shall include the water use efficiency standards approved by the County. <<**  **>>Section 3**  **Sec. 32-85. Alternative water supply for development of regional impact.**  **Applications for new Developments of Regional Impact (“DRI”) with a projected water demand of one million gallons per day or greater shall be evaluated by MDWASD to determine the feasibility of an alternative water supply project. Such projects may include the installation of a reverse osmosis plant, wastewater reclamation facility and reuse distribution system. <<**  **>>Sec 8A-86. Water use efficiency and conservation education and outreach.**  **The Miami-Dade County Water Use Efficiency Manager shall provide public information education and outreach on all water use efficiency standards and water conservation programs<<**  **Sec 8A-381. Intent and Applications**  **(c) The provisions of this article shall apply to multiple unit properties utilizing water services. >>Effective July 1, 2008, all permi applications for new multi-family residential developments shall be required to include a submeter for each individual dwelling unit.<<** | | |  | | |
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| Broward County | | RESIDENTIAL  <https://floridabuilding.org/Upload/FBC/CodeID_7784_fba1_Broward%20County%20Local%20Amnd%208th%20Ed%20FBC%202023%20PLUMB%20%20AppxF-Ch3%20Ch%206--2023-12-29.pdf> | | **APPENDIX F**  **PROPOSED CONSTRUCTION BUILDING CODES FOR**  **TURF AND LANDSCAPE IRRIGATION SYSTEMS**  **PART I: GENERAL**  **C. Preconstruction Submittals**  1. Plans or Drawings  c. Sprinkler layout: Sprinkler layout may be modified to adjust for field conditions provided it complies with part VI, Section B, subsection 1 Sprinkler layout and spacing. Prior to final inspection, the contractor shall submit a letter or as-built drawing that reflects the modification to the authority with jurisdiction.  **PART IV: MATERIALS**  A. PVC Pipe and Fittings  3. Threaded PVC pipe ~~firings~~ **fittings** shall meet the requirements of Schedule 40 as set forth in ASTM D2464.  **PART V: INSTALLATION**  **A. Pipe Installation**  4. Thrust blocks **or other approved method** must be used on all gasketed PVC systems.  5. The trench bottom must be uniform, free of debris, and of sufficient width to properly place  pipe and support it over its entire length. Native excavated material may be used to backfill  the pipe trench. However, the initial backfill the material **to 6” above the top of the pipe** shall  be free from rocks or stones larger than 1-inch in diameter. **The final backfill material shall**  **be free of rock or debris that is greater than 3” in diameter.**  6. Pipe sleeves must be used to protect pipes or wires installed under pavement or roadways.,  **or when position of irrigation pipes or wires conflict with pipes or appurtenances of other**  **trades.**  **PART VI: TESTING & INSPECTIONS**  **B. Rough inspections**  **4. Open Trench Inspection: The trench at all joints and every transition in pipes size, will be**  **open where open trench inspection is required**. |  | |
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| Broward County | **BUILDING**  <https://floridabuilding.org/Upload/FBC/CodeID_7784_fba1_Broward%20County%20Local%20Amnd%208th%20Ed%20FBC%202023%20PLUMB%20%20AppxF-Ch3%20Ch%206--2023-12-29.pdf> | | **APPENDIX F**  **PROPOSED CONSTRUCTION BUILDING CODES FOR**  **TURF AND LANDSCAPE IRRIGATION SYSTEMS**  **PART I: GENERAL**  **C. Preconstruction Submittals**  **1. Plans or Drawings**  a. Single-Family Residence: Provide design drawings or shop drawings, where required, for the installation prior to start of construction. Design drawings shall be clearly readable, to reasonable scale, show the entire site to be irrigated, and include all improvements. Drawings can be prepared by a properly licensed qualified contractor.  **b. Commercial, Industrial, Municipal, and Multiple Family**: Provide professionally designed drawings prior to start of construction. Design drawings shall be clearly readable, to reasonable scale, show the entire site to be irrigated, including all improvements, and shall include but not be limited to: date, scale, revisions, legend, specifications which list all aspects of equipment and assembly thereof, water  source, water meter and/or point of connection, backflow prevention devices, pump station size, pump station location, design operating pressure and flow rate per zone, precipitation rate per zone, locations of pipe, controllers, valves, sprinklers, sleeves, 3 gate valves, etc. The plans and specifications shall be prepared in accordance  with Section 107 of the Florida Building Code, Building.  **c. Sprinkler Layout:** Sprinkler layout may be modified to adjust for field conditions provided it complies with part VI, Section B, subsection 1 Sprinkler layout and spacing. Prior to final inspection, the contractor shall submit a letter or as-built drawing that reflects the modification to the authority with jurisdiction.  **PART V: INSTALLATION**   1. **Pipe Installation**   4. Thrust blocks **or other approved methods** must be used on all gasketed PVC systems. They must be formed against a solid, hand-excavated trench wall undamaged by mechanical  equipment. They shall be constructed of concrete, and the space between the pipe and 13 trench shall be filled to the height of the outside diameter of the pipe. Size thrust blocks in accordance with ASAE S-376.1.  5. The trench bottom must be uniform, free of debris, and of sufficient width to properly place pipe and support it over its entire length. Native excavated material may be used to backfill the pipe trench. However, the initial backfill material **to 6” above the top of the pipe** shall be free from rocks or stones larger than 1 inch in diameter. **The final backfill material shall be free of rock or debris that is greater than 3” in diameter**. At the time of placement, the moisture content of the material shall be such that the required degree of compaction can be obtained with the backfill method to be used. Blocking or mounding shall not be used to  bring the pipe to final grade.  6. Pipe sleeves must be used to protect pipes or wires installed under pavement or roadways**, or when position of irrigation pipes or wires conflict with pipes or appurtenances of other trades**. Use pipe sleeves two pipe sizes larger than the carrier pipe or twice the diameter of the wire bundle to be placed under the paving or roadway and extending a minimum of 3 feet beyond the paved area or as required by the Florida Department of Transportation (FDOT). Use sleeve pipe with wall thickness at least equal to the thickness of Schedule 40 or PR 160 pipe, whichever is thicker. Proper backfill and compaction procedures should be followed.  **PART VI: TESTING & INSPECTIONS**   1. **Rough Inspections**   **4. Open Trench Inspection: The trench at all joints and every transition in the pipe size will be open where open trench inspection is required.**  **[M] 314.2.1 Condensate drainage collection, use or disposal. Condensate from all cooling coils and evaporators of equipment served by an onsite cooling tower in a building or structure wherein the aggregate cooling capacity of the equipment exceeds 65,000 Btu/hr shall be collected and conveyed from the drain pan outlet and discharged to the cooling tower. Where an on-site cooling tower is not installed the** condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an *approved place* of disposal.  **Exceptions:**  **1. Condensate from cooling coils and evaporators is not required to be collected and conveyed to an on-site cooling tower: provided 1.1 through 1.3 are met:**  **1.1 The equipment comprises 10% or less of the total capacity of the cooling tower system**  **1.2 The equipment is located in an isolated or remote area**  **1.3 The size of the equipment is 65,000 Btu/hr or less**  **2. In existing buildings, condensate may be collected and conveyed to a cooling tower or discharged to an approved place of disposal.**  **SECTION 604 DESIGN OF BUILDING WATER DISTRIBUTION SYSTEM**  **604.4 Maximum flow and water consumption.**  **Exceptions:**  **6. All fixtures, fittings, and appliances with U.S. Environmental Agency WaterSense® (EPA) label** | | |  | | |
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