Georgia State Amendments to the International Plumbing Code

(2006 Edition)

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GEORGIA STATE MINIMUM STANDARD PLUMBING CODE
(INTERNATIONAL PLUMBING CODE WITH GEORGIA STATE AMENDMENTS)

The INTERNATIONAL PLUMBING CODE, 2006 Edition, published by the International Code Council, when used in conjunction with these Georgia State Amendments and all other Georgia State Amendments to the INTERNATIONAL PLUMBING CODE, 2006 Edition, shall constitute the official *Georgia State Minimum Standard Plumbing Code.*

GEORGIA STATE AMENDMENTS

CODE REFERENCE:

(a) Replace all references to the ICC *Electrical Code* with references to the *Georgia State Minimum Standard Electrical Code* (*National Electrical Code with Georgia State Amendments*).

(b) Replace all references to the *International Energy Conservation Code* (*IECC*) with references to the *Georgia State Minimum Standard Energy Code* (*IECC with Georgia State Supplements and Amendments*). The *Georgia State Minimum Standard Energy Code* shall be used for efficiency and coefficient of performance ratings of plumbing equipment.

GEORGIA STATE MINIMUM
REQUIREMENTS FOR BOILERS/WATER HEATERS AND PRESSURE VESSELS

The State's minimum requirements for boilers/water heaters and pressure vessels over 200,000 BTU/h (58.61 kW), 210 degrees Fahrenheit or 120 gallons capacity shall be established by O.C.G.A. Title 34, Chapter 11 and the Rules and Regulations of the Georgia Department of Labor.

GEORGIA STATE MINIMUM
REQUIREMENTS FOR HIGH EFFICIENCY PLUMBING FIXTURES AND COOLING TOWERS

High efficiency plumbing fixtures and high efficiency cooling towers shall be installed in all new construction permitted on or after July 1, 2012.

Revise the International Plumbing Code, 2006 Edition, as follows:

CHAPTER 2
DEFINITIONS

SECTION 202
GENERAL DEFINITIONS

*Add new definition of 'High Efficiency Plumbing Fixtures and Fittings' to read as follows:

HIGH EFFICIENCY PLUMBING FIXTURES AND FITTINGS.

Dual flush water closet. A dual flush water closet or toilet that the average flush volume of two reduced flushes and one full flush does not exceed 1.28 gallons and is listed to the WaterSense Tank-Type High Efficiency Toilet Specification.

Kitchen faucet or kitchen faucet replacement aerator. A kitchen faucet or kitchen faucet replacement aerator that allows a flow of no more than 2.0 gallons of water per minute.

Lavatory faucet or lavatory faucet replacement aerator. A lavatory faucet or lavatory faucet replacement aerator that allows a flow of no more than 1.5 gallons per minute at a pressure of 60 pounds per square inch and is listed to the WaterSense High Efficiency Lavatory Faucet Specification.

Nonwater urinal. A urinal that is designed to receive and convey only liquid waste through a trap seal into the gravity drainage system without the use of water for such function.

Single flush water closet. A single flush water closet or toilet, including gravity, pressure assisted, and electro-hydraulic tank types, that the average flush volume does not exceed 1.28 gallons and is listed to the WaterSense Tank-Type High Efficiency Toilet Specification.

Shower head. A shower head that allows a flow of no more than the average of 2.5 gallons of water per minute at 60 pounds per square inch of pressure.

Urinal. A urinal and associated flush valve that uses no more than 0.5 gallons of water per flush and is listed to the WaterSense Specification for Flushing Urinals.

(Effective July 1, 2012)

*Add new definition of 'Lavatory Faucet' to read as follows:

LAVATORY FAUCET. A faucet that discharges into a lavatory basin in a domestic or commercial installation.

(Effective July 1, 2012)

*Revise the definition of 'Plumbing Fixture' to read as follows:

PLUMBING FIXTURE. A receptacle or device that receives water, waste or both and discharges water, waste, or both into a drainage system, and that is either permanently or temporarily connected to the water distribution system of the premises and demands a supply of water there-from; discharges wastewater, liquid-borne waste materials or sewage either directly or indirectly to the drainage system of the premises; or requires both a water supply connection and a discharge to the drainage system of the premises. The term includes a kitchen sink, utility sink, lavatory, bidet, bathtub, shower, urinal, toilet, water closet, or drinking water fountain.
(Effective July 1, 2012)

*Rename and revise the definition of 'Fixture Fitting' to read as follows:

PLUMBING FIXTURE FITTING. A device that controls and directs the flow of water or conveys sanitary waste. The term includes a sink faucet, lavatory faucet, showerhead, or bath filler.

Supply fitting. A fitting that controls the volume and/or directional flow of water and is either attached to or accessible from a fixture, or is used with an open or atmospheric discharge.

Waste fitting. A combination of components that conveys the sanitary waste from the outlet of a fixture to the connection to the sanitary drainage system.
(Effective July 1, 2012)

*Add new definition of 'Pressurized Flushing Device' to read as follows:

PRESSURIZED FLUSHING DEVICE. A device that contains a valve that:

1. Is attached to a pressurized water supply pipe that is of sufficient size to deliver water at the necessary rate of flow to ensure flushing when the valve is open; and
2. Opens on actuation to allow water to flow into the fixture at a rate and in a quantity necessary for the operation of the fixture and gradually closes to avoid water hammer.

(Effective July 1, 2012)

*Add new definition of 'Toilet' to read as follows:

TOILET. A water closet.
(Effective July 1, 2012)

*Add new definition of 'Water Closet' to read as follows:

WATER CLOSET. A fixture with a water-containing receptor that receives liquid and solid body waste and on actuation conveys the waste through an exposed integral trap into a drainage system and which is also referred to as a toilet.
(Effective July 1, 2012)

*Add new definition of ‘WaterSense’ to read as follows:

WATERSENSE. A voluntary program of the United States Environmental Protection Agency designed to identify and promote water efficient products and practices.
(Effective July 1, 2012)

*Add new definition of ‘WaterSense Listed Plumbing Fixture or Plumbing Fixture Fitting’ to read as follows:

WATERSENSE LISTED PLUMBING FIXTURE OR PLUMBING FIXTURE FITTING. A plumbing fixture or plumbing fixture fitting that has been tested by a accredited third-party certifying body or laboratory in accordance with the WaterSense Program of the United States Environmental Protection Agency, and has been listed (certified) by such body or laboratory as meeting the performance and efficiency requirements of the program, and has been authorized by the program to use its label.
(Effective July 1, 2012)

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CHAPTER 3
GENERAL REGULATIONS

SECTION 301
GENERAL

*****Add new Section 301.1.1 'Requirements for high efficiency plumbing fixtures' as follows:

301.1.1 Requirements for high efficiency plumbing fixtures. The installation of high efficiency plumbing fixtures shall be required in all new construction.
(Effective July 1, 2012)

*Add new Section 301.1.2 'Waiver for requirements of high efficiency plumbing fixtures' as follows:

301.1.2 Waiver of requirements for high efficiency plumbing fixtures.
Counties and municipalities are permitted to adopt an ordinance that grants a waiver for an exemption to the requirements for the installation of high efficiency plumbing fixtures relative to new construction and to the repair or renovation of an existing building under the following conditions:

1. When the repair or renovation of the existing building does not include the replacement of the plumbing or sewage system servicing toilets, faucets, or shower heads within such existing building;
2. When such plumbing or sewerage system within such existing building, because of its capacity, design, or installation, would not function properly if the toilets, faucets, or shower heads required by this part were installed;
3. When such system is a well or gravity flow from a spring and is owned privately by an individual for use in such individual's personal residence; or
4. When units to be installed are:
    a. Specifically designed for use by person with disabilities;
    b. Specifically designed to withstand unusual abuse or installation in a penal institution; or
    c. Toilets for juveniles.

(Effective July 1, 2012)

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CHAPTER 4
FIXTURES, FAUCETS AND FIXTURE FITTINGS

SECTION 419
URINALS

*Revise Section 419.1 'Approval' to read as follows:

419.1 Approval. Urinals shall conform to ANSI Z124.9, ASME A112.19.2M, CSA B45.1 or CSA B45.5. Urinals shall conform to the water consumption requirements of Section 604.4. Water supplied urinals shall conform to the hydraulic performance requirements of ASME A112.19.6, CSA B45.1 or CSA B45.5.

High efficiency urinals with pressurized flushing devices and flush tank (gravity type) flushing devices shall be listed to the WaterSense Specification for Flushing Urinals and shall conform to ASME A112.19.2/CSA B45.1.

Non-water urinals shall conform to ASME A112.19.3/CSA B45.4 or A112.19.19, CSA B45.4. Where non-water urinals are employed, they shall be cleaned and maintained in accordance with the manufacturer's instructions after installation. Where nonwater urinals are installed they shall have a properly sized water distribution line roughed-in to the urinal location at a minimum height of 56 inches (1,422 mm) to allow for the installation of an approved backflow prevention device in the event of a retrofit. Such water distribution lines shall be installed with shut-off valves located as close as possible to the distributing main to prevent the creation of dead ends. Where nonwater urinals are installed, a minimum of one water supplied fixture rated at a minimum of one water supply fixture unit shall be installed upstream on the same drain line to facilitate drain line flow and rinsing.
(Effective July 1, 2012)

*Delete the 2009 GA Amendment to Section 419.2 'Substitution for water closets'.
(Effective July 1, 2012)

SECTION 420
WATER CLOSETS

*Revise Section 420.1 'Approval' to read as follows:

420.1 Approval. Toilets or water closets shall conform to the water consumption requirements of Section 604.4 and shall conform to ANSI Z124.4, ASME A112.19.2M, CSA B45.1, CSA B45.4 or CSA B45.5. Toilets or water closets shall conform to the hydraulic performance requirements of ASME A112.19.6. Toilet or water closet tanks shall conform to ANSI Z124.4, ASME A112.19.2, ASME A112.19.9M, CSA B45.1, CSA B45.4 or CSA B45.5. Electro-hydraulic toilets or water closets shall comply with ASME A112.19.13.

High efficiency single flush and dual-flush toilets or water closets shall conform to ASME A112.19.2/CSA B45.1 and ASME A112.19.14.
(Effective July 1, 2012)

SECTION 424
FAUCETS AND OTHER FIXTURE FITTINGS

*Revise Section 424.1‘Approval’ to add the following new paragraph at the end of the section:

Section 424.1 Approval.
High efficiency lavatory faucets or lavatory faucet replacement aerators in private use, such as, in residences and apartments, and private (nonpublic) restrooms in hotels and hospitals shall be listed to the WaterSense High Efficiency Lavatory Faucet Specification.
(Effective July 1, 2012)

CHAPTER 6
WATER SUPPLY AND DISTRIBUTION

SECTION 604
DESIGN OF BUILDING WATER DISTRIBUTION SYSTEM

*Revise Table 604.4 to read as follows:

TABLE 604.4
MAXIMUM FLOW RATES AND CONSUMPTION FOR PLUMBING FIXTURES AND FIXTURE FITTINGS

PLUMBING FIXTURE OR FIXTURE FITTING	MAXIMUM FLOW RATE OR QUANTITY[b]
Lavatory, private	1.5[f] 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 head[a]	2.5 gpm at 60[f] psi
Sink faucet	2.0[f] gpm at 60 psi
Urinal	0.5[f] gallons per flushing cycle
Water closet	1.28[c, d, e, f] gallons per flushing cycle

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. For flushometer valves and flushometer tanks, the average flush volume shall not exceed 1.28 gallons.
d. For single flush water closets, including gravity, pressure assisted and electro-hydraulic tank types, the average flush volume shall not exceed 1.28 gallons.
e. For dual flush water closets, the average flush volume of two reduced flushes and one full flush shall not exceed 1.28 gallons.
f. See 2012 GA Amendment to Section 301.1.2 ‘Waiver from requirements of high efficiency plumbing fixtures’

(Effective July 1, 2012)

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CHAPTER 13
REFERENCED STANDARDS

*****Revise to add the following new referenced standards for ASME**:**

ASME

American Society of Mechanical Engineers
Three Park Avenue
New York, NY 10016-59900

Standard Reference Number	Title	Reference in code section number
A112.19.2-2008/CSA B45.1-08	Ceramic Plumbing Fixtures	420.1
A112.19.14-2006	Six-Liter Water Closets Equipped With a Dual Flushing Device	420.1
A112.19.19.2-2006	Vitreous China Nonwater Urinals	419.1

(Effective July 1, 2012)

*****Revise to add the following new referenced standards for WATERSENSE**:**

WATERSENSE

WaterSense
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

Standard Reference Number	Title	Reference in code section number
WaterSense	Tank-Type High Efficiency Toilet Specification	202, 420.1
WaterSense	Specification for Flushing Urinals	202, 419.1
WaterSense	High-Efficiency Lavatory Faucet Specification	202

(Effective July 1, 2012)

End of Amendments.