

Code Amendment Proposal Form

For public amendments proposed to the 2021 editions of the International Codes



Instructions: Upload this form and all accompanying documentation. If you are submitting your proposal on a separate sheet, make sure it includes all information requested below.

All proposals must be received by **July 23, 2021**.

CONTACT INFORMATION

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Organization or Representing Self: Western Resource Advocates

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Signature:

AMENDMENT PROPOSAL

Please use a separate form for each proposal.

- 1) Code(s) associated with this proposal. Please use acronym: DBC - IPC
If you submitted a separate coordination change to another code, please indicate which code: _____

<u>Acronym</u>	<u>Code Name</u>	<u>Acronym</u>	<u>Code Name</u>
DBC-AP	Denver Building Code–Administrative Provisions	IFC	International Fire Code
DBC-xxx	Denver Building Code–xxx (code) amendments (e.g., DBC-IBC, DBC-IEBC)	IFGC	International Fuel Gas Code
IBC	International Building Code	IRC	International Residential Code
IEBC	International Existing Building Code	IMC	International Mechanical Code
IECC	International Energy Conservation Code	IPC	International Plumbing Code
		DGC	Denver Green Code

- 2) Please check here if a separate graphic file is provided:
Graphics may also be embedded within your proposal below.
- 3) Use this template to submit your proposal or attach a separate file, but please include all items requested below in your proposal. The only formatting needed is **BOLDING**, ~~STRIKEOUT~~ AND UNDERLINING. Please do not provide additional formatting such as tabs, columns, etc., as this will be done by CPD.

Code Sections/Tables/Figures Proposed for Revision:

Code Placement to be determined.

Section 604: Design of Building Water Distribution System

Proposal:

Section 604: Design of Building Water Distribution System

Section 604.4: Maximum Flow Rates and Water Consumption is revised as follows:

The maximum water consumption flow rates and quantities for all plumbing fixtures and fixture fittings shall be in accordance with Table 604.4.

Exceptions:

1. Blowout design water closets having a water consumption not greater than 3 ½ gallons (13 L) per flushing cycle.
2. Vegetable sprays.
3. Clinical sinks having a water consumption not greater than 4 ½ 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

Plumbing Fixture or Fixture Fitting	Maximum Flow Rate or Quantity
Lavatory, private	2.2 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	2.5 1.8 gpm at 80 psi
Bathroom Sink Faucet	2.2 1.5 gpm at 60 psi
Urinal	1.0 0.125 gallon per flushing cycle
Water Closet	1.6 1.1 gallon per flushing cycle
Kitchen Sink Faucet	1.8 gpm (temporary override to 2.2 gpm allowed)

Supporting Information:

Purpose: The purpose of the proposed amendment is to encourage water efficiency in new development and redevelopment in Denver by instituting best management practices for indoor, outdoor, and onsite reuse practices. By reducing per capita water consumption, Denver can build water system resilience in the face of population growth and climate change.

Reasons: The Colorado River Basin is in the midst of an unprecedented drought and these conditions will only be exacerbated in the future by climate change and population growth. In the Front Range, water conservation is our most affordable and most reliable water supply option. Smart, integrated water and land use planning efforts today will help build water resource resiliency in Denver in the future.

Substantiation & Works Cited:

Similar how the Denver Department of Climate Action, Sustainability and Resiliency has a plan to move all building to electrification over the next several code cycles the Denver Water Efficiency Plan has a goal to move all customers to be efficient water users. To do this the building code needs to slowly ratchet down water use as water efficient product become readily available in the marketplace. Through the Denver Water System Development Credit Pilot Program and two years of Denver Green Code all of the fixtures in table 604.4 can be found easily in the marketplace. The availability and relative price parity should make these a part of standard code.

Referenced Standards:

- EPA WaterSense Indoor Fixture Standards: <https://www.epa.gov/watersense/product-specifications>
- Tank type toilet <https://www.epa.gov/sites/default/files/2017-01/documents/ws-products-spec-toilets.pdf>
- Flushing urinal: <https://www.epa.gov/sites/default/files/2017-01/documents/ws-products-spec-urinals.pdf>
- Bathroom faucet: <https://www.epa.gov/sites/default/files/2017-01/documents/ws-products-spec-faucets.pdf>
- Showerheads <https://www.epa.gov/sites/default/files/2018-07/documents/ws-products-specification-showerheads-v1-1.pdf>

Note: List any new referenced standards that are proposed to be referenced in the code.

Impact:

