

**ADDENDUM to EXPRESS TERMS
FOR
PROPOSED BUILDING STANDARDS
OF THE
DIVISION OF THE STATE ARCHITECT (DSA-SS)**

**REGARDING ADOPTION OF AMENDMENTS TO 2010 CALIFORNIA BUILDING STANDARDS CODE,
TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), PARTS 2, 3, 4, 5 and 6 IN TITLE 24, CCR,
PART 11, 2010 CALIFORNIA GREEN BUILDING STANDARDS CODE**

Legend for Express Terms:

1. **45-day and 15-day California amendment:** Amended California language will appear with new words underlined, and omitted language will appear in ~~strikeout~~.
2. **Requested amended language:** Amended, adopted, or repealed language will appear in double underline and ~~double-strikeout~~ and highlighted in a gray tone.
3. **Reason for amendment:** The justifications for the change are shown after the proposed changes.
4. **Notation:** Authority and reference citations have been provided in the 45-day express terms.
5. **Code sections unchanged** and not shown are represented by . . .

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CHAPTER 5

NONRESIDENTIAL MANDATORY MEASURES

**SECTION 5.303
INDOOR WATER USE**

5.301.1 General [DSA-SS] . . .

5.302.1 Definitions [DSA-SS] . . .

5.303.2 20% Savings. [DSA-SS] A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 20% shall be provided. The reduction shall be based on the maximum allowable water use per plumbing fixture and fittings as required by the California Building Standards Code. The 20% reduction in potable water use shall be demonstrated by one of the following methods:

1. Prescriptive method. Each plumbing fixture and fitting shall ~~meet the 20% reduced flow rate~~ not exceed the maximum flow rate at ≥20 percent reduction as specified in Table 5.303.2.3, or
2. Performance method. A calculation demonstrating a 20% reduction in the building “water use baseline” as established in Table 5.303.2.2 shall be provided.

5.303.2.1 Multiple showerheads serving one shower. When ~~single shower fixtures are a~~ shower is served by more than one showerhead, the combined flow rate of all the showerheads controlled by a single valve shall not exceed the maximum flow rate at ≥20 percent reduction contained in Table 5.303.2.2 or the shower shall be designed to only allow one showerhead to be in operation at a time.

Exception: The maximum flow rate for shower heads when using the ~~calculation~~ performance method specified in Section 5.303.2.1, Item 2 is 2.5 gpm @ 80 psi.

**TABLE 5.303.2.2
INDOOR WATER USE BASELINE^{4 3}
[DSA-SS]**

Fixture Type	<u>Baseline Flow-rate</u> ²	Duration	Daily uses	Occupants ^{2, 3,} 4 ³
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Showerheads	2.5 gpm @ 80 psi	8 5 min.	1	X ²³
Lavatory faucets, residential	2.2 gpm @ 60 psi	.25 min.	3	X
Lavatory Faucets Nonresidential	0.5 gpm @ 60 psi	.25 min.	3	X ²³
Kitchen Faucets	2.2 gpm @ 60 psi	4 min.	1	X
Replacement Aerators	2.2 gpm @ 60 psi			X
Wash Fountains	2.2 [rim space (in.) / 20 gpm @ 60 psi]			X
Metering Faucets	0.25 gallons/cycle	.25 min.	3	X
Metering Faucets for Wash Fountains	.25 [rim space (in.) / 20 gpm @ 60 psi]	.25 min.		X
Gravity tank type Water Closets	1.6 gallons/flush	1 flush	1 male ¹ 3 female	X
Flushometer Tank Water Closets	1.6 gallons/flush	1 flush	1 male ¹ 3 female	X
Flushometer Valve Water Closets	1.6 gallons/flush	1 flush	1 male ¹ 3 female	X
Electromechanical Hydraulic Water Closets	1.6 gallons/flush	1 flush	1 male ¹ 3 female	X
Urinals	1.0 gallons/flush	1 flush	2 male	X

Fixture "Water Use" = Flow rate x Duration x Occupants x Daily uses

¹ The daily use number shall be increased to three if urinals are not installed in the room.

² The flow rate is from the CEC Appliance Efficiency Standards, Title 20 California Code of Regulations; where a conflict occurs, the CEC standards shall apply.

³ Refer to Table A, Chapter 4, California Plumbing Code, for occupant load factors.

(a) Shower use by occupants depends on the type of use of a building or portion of a building, e.g., total occupant load for a health club, but only a fraction of the occupants in an office building as determined by the anticipated number of users.

(b) Nonresidential kitchen faucet use is determined by the occupant load of the area served by the fixture.

⁴ Use Worksheet WS-1 to calculate base line water use.

Recommendation for "Approve as amended"

DSA requests that this minor amendment be approved by the Commission to correct subscript number and align with CBSC's table. Whereas DSA made no change to this section other than re-arranging the numbering order, this is a errata item without regulatory effect and is requested to avoid user conflict.

APPENDIX A5 NONRESIDENTIAL VOLUNTARY MEASURES

SECTION A5.106 SITE DEVELOPMENT

A5.106.5.1 Designated parking for fuel efficient vehicles. ~~Tier 1 [BSC] Designated parking for fuel efficient vehicles (10%). [DSA-SS]~~ Provide designated parking for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as shown in Table A5.106.5.1.1. ~~or A5.106.5.1.2.~~

A5.106.5.1.1. Tier 1 [BSC] 10% of Total Spaces [DSA-SS]. Provide 10% of total designated parking spaces for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as follows:

**Table A5.106.5.1.1
Tier 1
10% of Total Spaces [DSA-SS]**

Total Number of Parking Spaces	Number of Required Spaces
0-9	0
...	...
201 and over	At least 10% of total

A5.106.5.1.2. Tier 2 Provide 12% of total designated parking spaces for any combination of low-emitting, fuel-efficient, and carpool/van pool vehicles as follows:

**Table A5.106.5.1.2
Tier 2 [BSC]
12% of Total Spaces**

Total Number of Parking Spaces	Number of Required Spaces
0-9	1
...	...
201 and over	At least 12% of total

A5.106.5.1.3 Parking stall marking [DSA-SS]. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle:

**“CLEAN AIR/
VEHICLE VANPOOL/EV”**

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

Recommendation for “Approve as amended”

DSA requests that this amendment be approved by the Commission to correct text and align with CBSC’s section. This subsection was mistakenly deleted from this section at 45-day language in an attempt to coordinate with CBSC’s language. Whereas DSA made no change to this section other than re-arranging the numbering order and banners, this is a change without regulatory effect and is requested to avoid user conflict.

**SECTION A5.409
LIFE CYCLE ASSESSMENT**

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~~**A5.409.2.4 Life cycle inventory.** The following data derived from Life Cycle Inventory shall be reported in the assessment:~~

- ~~1. Use of renewable primary energy~~
- ~~2. Depletion of non-renewable material resources~~
- ~~3. Use of renewable material resources~~
- ~~4. Consumption of fresh water~~

~~**A5.409.3 Materials and system assemblies. [DSA-SS]** If whole building analysis of the project is not elected, s Select a minimum of 50% of materials or assemblies based on life cycle assessment of at least three of the impacts listed in Section A5.409.2.32, one of which shall be climate change of their embodied energy and/or green-house gas emission potentials.~~

Notes:

- ~~1. Software for calculating life cycle assessments costs for materials assemblies and materials may be found at:ET a- the Athena Institute web site-~~

Recommendation for “Approve as amended”

DSA requests that this deletion and minor numbering amendment be approved by the Commission to correct text and align with matrix adoption tables. This subsection was mistakenly put into the section at 45 day language. Whereas DSA made no change to this section other than re-arranging the numbering order, this is a change without regulatory effect and is requested to avoid user conflict.

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DIVISION A5.5 ENVIRONMENTAL QUALITY WATER EFFICIENCY AND CONSERVATION

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**SECTION A5.504
POLLUTANT CONTROL**

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A5.504.1 Indoor air quality (IAQ) during construction [DSA-SS]. Maintain IAQ as provided in Sections A5.504.1.1 and A5.504.1.2.

A5.504.1.1 Temporary ventilation. Provide temporary ventilation during construction in accordance with Section 121 (Requirements for Ventilation) of the California Energy Code, CCR, Title 24, Part 6, and Chapter 4 of CCR, Title 8, and as follows:

1. Ventilation during construction shall be achieved through openings in the building shell using fans to produce a minimum of three air changes per hour.

~~2. During dust-producing operations, protect supply and return HVAC system openings from dust.~~

~~4-2. If the building is occupied during demolition or construction, meet or exceed the recommended Control Measures of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guidelines for Occupied Buildings under Construction, 1995, Chapter 3.~~

3. The permanent HVAC system shall only be used during construction if necessary to condition the building within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy.

~~4. If the building is occupied during demolition or construction, meet or exceed the recommended Control Measures of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guidelines for Occupied Buildings under Construction, 1995, Chapter 3.~~

~~4. During dust-producing operations, protect supply and return HVAC system openings from dust.~~

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Recommendation for “Approve as amended”

DSA requests that this minor numbering amendment be approved by the Commission to align numbering with CBSC in this section with the changes made with number 2 and 3 being deleted or moved. Whereas DSA made no change to this section other than re-arranging the numbering order, this is a change without regulatory effect and is requested to avoid conflicts between these several companion provisions.