

COMMISSION ACTION MATRIX - APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION JULY 13, 2020
2019 CALIFORNIA GREEN BUILDING CODE, TITLE 24, PART 11
AGENCY: THE CALIFORNIA BUILDING STANDARDS COMMISSION [BSC 04/19]

LEGEND:

CAC Actions: Approve as Amended, Approve as Submitted, Disapprove, Further Study

Agency Responses: Accept, Disagree, Withdraw

CBSC Actions: Approve as Amended, Approve as Submitted, Disapprove, Further Study

Matrix Paper Color (for commission action only): GREEN = uncontested items, YELLOW = challenged items, SALMON = withdrawn, no action required

GREEN-PEME AD HOC CODE ADVISORY COMMITTEE

DESIGNATED PARKING

SECTION 5.106.5.2 – DESIGNATED PARKING FOR CLEAN AIR VEHICLES.

Amend sections listed below

Item Number 1	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-1-1	TABLE 5.106.5.2 Designated parking for clean air vehicles	Approve as Submitted	Accept	John Higham, Electric Auto Association, recommends Approve as Submitted with a Neutral position.	Amend section to increase the percentage of designated parking stalls for clean air vehicles (CAV) mandatory measures. Associated with voluntary measures Item Items 9-2 through 9-6 below. 45-day comment: Support letter from John Highman (EAA). See FSOR for additional information.	Approved

ELECTRIC VEHICLE INFRASTRUCTURE
SECTION 5.106.5.3 – Electric vehicle (EV) charging.
Amend sections listed below

Item Number 2	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-2-1	TABLE 5.106.5.3.3 EV charging space calculation	Approve as Submitted	Accept	John Higham, Electric Auto Association, recommends Approve as Submitted. Coalition letter from (CalETC), CALSTART, the Electric Vehicle Charging Association (EVCA), EVgo, ChargePoint, Tesla and the U.S. Green Building Council (USGBC), recommends Approve as Submitted.	Amend table to increase the percentage of spaces required for electrical vehicle (EV) charging infrastructure. Associated with voluntary measures Item 10 below. 45-day comment: Support letter from John Highman (EAA) & EV coalition. See FSOR for additional information.	Approved
BSC 04/19-2-2	5.106.5.3.5 [N] Future charging spaces	Approve as Submitted	Accept	Coalition letter from (CalETC), CALSTART, the Electric Vehicle Charging Association (EVCA), EVgo, ChargePoint, Tesla and the U.S. Green Building Council (USGBC), recommends Approve as Submitted.	Amend section to add “Note” clarifying that future EV charging spaces shall count toward the total required parking spaces. 45-day comment: Support letter from EV coalition. See FSOR for additional information.	Approved

LIGHT POLLUTION REDUCTION
SECTION 5.106.8 Light pollution reduction.
Amend sections listed below

Item Number 3	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-3-1	5.106.8 Light pollution reduction., Exceptions: [N], #1, #5	Approve as Submitted	Accept		Amend section to strike the [N] banner from Exceptions. Amending Exception 1 and adding new Exception 5 are to align with CALGreen BUG requirements adopted into the California Energy Code, Section 130.2(b).	Approved

BSC 04/19-3-2	<u>5.106.8.1 Facing – Backlight. & Exception: Corners</u>	Approve as Submitted	Accept		New code section proposing to relocate and amend table footnotes from Table 5.108.6 [N]. Section was added to properly align requirements for stringency of facing-backlight in relation to property lines. Add Exception for corners.	Approved
BSC 04/19-3-3	<u>5.106.8.2 Facing – Glare., Notes: #1 [N]</u>	Approve as Submitted	Accept		New code section proposing to relocate and amend table footnotes from Table 5.108.6 [N]. Section was added to properly align requirements for stringency of facing-glare in relation to property lines. Repeal the [N] banner in Notes.	Approved
BSC 04/19-3-4	<u>TABLE 5.106.8 [N] Maximum Allowable Backlight . . .</u>	Approve as Submitted	Accept		Repeal footnotes from this table and relocate them into two new code Section 5.106.8.1 with an exception for “corners,” and new Section 5.106.8.2. Table superscript numbers are re-adjusted to align with the with revised footnote numbers.	Approved

**PRE-RINSE SPRAY VALVES
SECTION 5.303 – INDOOR WATER USE**

Amend sections listed below

Item Number 4	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-4-1	<u>5.303.3.4.6 Pre-rinse spray valve.,</u>	Approve as Submitted	Accept		New code section to align with Appliance Efficiency regulations adopted for pre-rinse spray valves by the CEC in Title 20 for automatic shutoff requirements of the California Code of Regulations.	Approved
BSC 04/19-4-2	<u>FOR REFERENCE ONLY : . . Table H-2 . . . & Title 20 Section 1605.3(h)(4) (A)</u>	Approve as Submitted	Accept		Re-print Title 20 Table H2, and Title 20 Section 1605.3(h)(4)(A) for pre-rinse spray valves, for reference and labeling requirements on spray valves.	Approved

POLLUTANT CONTROL
SECTION 5.504 – POLLUTANT CONTROL

Amend sections listed below

Item Number 5	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-5-1	5.504.4.4 Carpet systems	Approve as Submitted	Accept		Amended section to repeal items 1 through 5 and add new CDPH referenced standard for VOC limits for carpet systems with new website link. CAC: recommended to review this amendment with other state agencies and interested parties. See ISOR.	Approved
BSC 04/19-5-2	5.504.4.4.1 Carpet cushion	Approve as Submitted	Accept		Amended section to repeal “Carpet and Rug Institute’s Green Label program” and new CDPH referenced standard added for VOC limits for carpet cushion with new website link. CAC: recommended to review this amendment with other state agencies and interested parties. See ISOR	Approved
BSC 04/19-5-3	5.504.4.4.6 Resilient flooring systems	Approve as Submitted	Accept	Josh Jacobs, Underwriters Laboratory, recommends Approve as Amended	Amended section to repeal items 1 through 4 and add new CDPH referenced standard for VOC limits for resilient flooring systems with new website link. CAC: recommended to review this amendment with other state agencies and interested parties. See ISOR 45-Day: See FSOR for agency response.	Approved

CHAPTER 6 – REFERENCED ORGANIZATIONS AND STANDARDS

Amend sections listed below

Item Number 6	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-6-1	NSF/ANSI 140-2007: 5.504.4.4	Approve as Submitted	Accept		Repeal referenced standard to avoid conflict with proposed amendment to Sections in Item 3. Associated with Item 15 below.	Approved
BSC 04/19-6-2	ASTM E1333 - <u>14</u> :	Approve as Submitted	Accept		Amend referenced standard to align with HCD's update that was promulgated previously in the 2015 Triennial Code Adoption Cycle.	Approved
BSC 04/19-6-3	ASTM E1903 - <u>97 11</u> :	Approve as Submitted	Accept		Update referenced standard, and correct the associated referenced section which should be A5.103.2.1.	Approved
BSC 04/19-6-4	ASTM E1918 - <u>06 (2015) - 16 (2016)</u> :	Approve as Submitted	Accept		Update referenced standard to align with the <i>California Energy Code</i> for reduction of heat island effect and solar reflectance requirements for hardscape materials.	Approved
BSC 04/19-6-5	ASTM E1980 - <u>04 - 11</u> :	Approve as Submitted	Accept		Amend and update standard to align with the <i>California Energy Code</i> for solar reflectance index for roofing materials.	Approved

**BASELINE WATER USE AND WATER USE REDUCTION
CHAPTER 8 – COMPLIANCE FORMS, WORKSHEETS AND REFERENCE MATERIAL**

Amend sections listed below

Item Number 7	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-7-1	WORK-SHEET (WS-1) BASELINE WATER USE TABLE	Approve as Submitted	Accept		Amend table for the shower heads flow rate from 2.0 to 1.8 gpm. Additionally, footnote 1 is being amended.	Approved

BSC 04/19-7-2	WORK-SHEET (WS-2) WATER USE REDUCTION TABLE	Approve as Submitted	Accept		Amend table footnote 1 from Table A to Table 4-1, to align with a proposed code change in the 2019 California Plumbing Code Chapter 4.	Approved
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**BROWNFIELD REDEVELOPMENT (VOLUNTARY)
APPENDIX A5 – NONRESIDENTIAL VOLUNTARY MEASURES
SECTION A5.103 – SITE SELECTION**

Amend sections listed below

Item Number 8	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-8-1	A5.103.2.1 Brownfield redevelopment.	Approve as Submitted	Accept		Amend code section to update the referenced standard from ASTM E1903-97 to ASTM E1903-11 which is proposed for change in Item 6 above.	Approved

**CHANGING ROOMS AND DESIGNATED PARKING (VOLUNTARY)
APPENDIX A5 – NONRESIDENTIAL VOLUNTARY MEASURES
SECTION A5.106 – SITE DEVELOPMENT**

Amend sections listed below

Item Number 9	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-9-1	A5.106.4.3 Changing rooms.	Approve as Submitted	Accept		Amend code section “Note” to add a website link for additional information from the Sacramento Area Bicycle Advocates.	Approved

BSC 04/19-9-2	A5.106.5.1 Designated parking for clean air vehicles	Approve as Submitted	Accept		Amend code section to increase the percentage of designated parking stalls for clean air vehicles (CAV) for new projects or additions or alterations that add 10 or more vehicular parking spaces. Associated with mandatory requirements proposed in items 1 above.	Approved
BSC 04/19-9-3	A5.106.5.1.1 Tier 1	Approve as Submitted	Accept		Amend code section to increase the percentage in Tier 1 voluntary measures to seventeen percent designated parking spaces, 201 and over parking spaces.,	Approved
BSC 04/19-9-4	TABLE A5.106.5.1.1; <u>footnote 1</u> <u>and Note</u>	Approve as Submitted	Accept		Amend table for Tier 1 voluntary measures adjust for incremental values used for calculation for CAV spaces and add footnote 1 to round values up to the nearest whole number. New Note added: Designated parking for CAV shall count toward the total parking spaces required by the local enforcing agencies.	Approved
BSC 04/19-9-5	A5.106.5.1.2 Tier 2	Approve as Submitted	Accept		Amend section to increase the percentage in Tier 2 voluntary measures to twenty two percent designated parking spaces, 201 and over parking spaces.,	Approved
BSC 04/19-9-6	TABLE A5.106.5.1.2; <u>footnote 1</u> <u>and Note</u>	Approve as Submitted	Accept		Amend table for Tier 2 voluntary measures adjust for incremental values used for calculation for CAV spaces and add footnote 1 to round values up to the nearest whole number. New Note added: Designated parking for CAV shall count toward the total parking spaces required by the local enforcing agencies.	Approved

**ELECTRIC VEHICLE INFRASTRUCTURE (VOLUNTARY)
APPENDIX A5 – NONRESIDENTIAL VOLUNTARY MEASURES
SECTION A5.106.5.3 – [N] Electric vehicle (EV) charging.**

Amend sections listed below

Item Number 10	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-10-1	TABLE A5.106.5.3.1, Tier 1, EV charging	Approve as Submitted	Accept	<p>John Higham, Electric Auto Association, recommends Approve as Submitted</p> <p>Coalition letter from (CalETC), CALSTART, the Electric Vehicle Charging Association (EVCA), EVgo, ChargePoint, Tesla and the U.S. Green Building Council (USGBC), recommends Approve as Submitted</p>	<p>Amend table to increase the Tier 1 voluntary measure percentage of spaces required for electrical vehicle (EV) charging infrastructure. Associated with mandatory measures Item 2 above.</p> <p>45-day comment: Support letter from John Highman (EAA) & EV coalition. See FSOR for additional information.</p>	Approved
BSC 04/19-10-2	TABLE A5.106.5.3.2, Tier 2, EV charging	Approve as Submitted	Accept	<p>John Higham, Electric Auto Association, recommends Approve as Submitted</p> <p>Coalition letter from (CalETC), CALSTART, the Electric Vehicle Charging Association (EVCA), EVgo, ChargePoint, Tesla and the U.S. Green Building Council (USGBC), recommends Approve as Submitted</p>	<p>Amend table to increase the Tier 2 voluntary measure percentage of spaces required for electrical vehicle (EV) charging infrastructure. Associated with mandatory measures Item 2 above.</p> <p>45-day comment: Support letter from John Highman (EAA) & EV coalition. See FSOR for additional information.</p>	Approved
BSC 04/19-10-3	A5.106.5.3.3 [N] Identification	Approve as Submitted	Accept	<p>Coalition letter from (CalETC), CALSTART, the Electric Vehicle Charging Association (EVCA), EVgo, ChargePoint, Tesla and the U.S. Green Building Council (USGBC), recommends Approve as Submitted</p>	<p>Amend to add a banner [N] to align with the mandatory code Section 5.106.3.4.</p> <p>45-day comment: Support letter from EV coalition. See FSOR for additional information.</p>	Approved

BSC 04/19-10-4	A5.106.5.3.4 [N] Future charging spaces. & Note . . .	Approve as Submitted	Accept	Coalition letter from (CalETC), CALSTART, the Electric Vehicle Charging Association (EVCA), EVgo, ChargePoint, Tesla and the U.S. Green Building Council (USGBC), recommends Approve as Submitted. Karen Klepack, Senior Manager, Building Electrification and Codes & Standards, Southern California Edison and Kate Zeng, ETP/C&S/ZNE Manager, Customer Programs, San Diego Gas & Electric Company	Amend to add a banner and title, and repeal to align with existing mandatory language in Section 5.106.5.3.5. Adding note -- Electric vehicle charging spaces shall count toward the total parking spaces required by the local enforcing agencies. 45-day comment: Support letter from EV coalition and SCE & SDGE letter. See FSOR for additional information.	Approved
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SOLAR REFLECTANCE INDEX (VOLUNTARY)
APPENDIX A5 – NONRESIDENTIAL VOLUNTARY MEASURES
SECTION A5.106 – SITE DEVELOPMENT
Amend sections listed below

Item Number 11	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-11-1	A5.106.11.2.3 Solar reflectance index alternative	Approve as Submitted	Accept		Amend section to update the referenced standard from ASTM E1980-01 to ASTM E1980-11 for solar reflectance index for roofing materials. Associated with item 6-5 above. Amend CEC code reference.	Approved

BIRD-FRIENDLY BUILDING DESIGN (VOLUNTARY)
APPENDIX A5 – NONRESIDENTIAL VOLUNTARY MEASURES
SECTION A5.107 – BIRD FRIENDLY BUILDING
Amend sections listed below

Item Number 12	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-12-1	<u>SECTION A5.107 BIRD FRIENDLY BUILDING DESIGN</u>	Further Study	Withdraw		New code section Title. CAC: recommended fundamental study of the entire proposal (Item 12), long term. BSC has Withdrawn this proposal.	N/A
BSC 04/19-12-2	<u>A5.107 Bird-friendly building design</u>	Further Study	Withdraw		New code section to address bird friendly building design. CAC: recommended fundamental study of the entire proposal (Item 12), long term. BSC has Withdrawn this proposal.	N/A
BSC 04/19-12-3	<u>A5.107.1 Glazing.</u>	Further Study	Withdraw		New code section to address reflective glazing for buildings. CAC: recommended fundamental study of the entire proposal (Item 12), long term. BSC has Withdrawn this proposal.	N/A
BSC 04/19-12-4	<u>A5.107.2 Special conditions</u>	Further Study	Withdraw		New code section to address special conditions that promote specific treatment of certain building architectural features. CAC: recommended fundamental study of the entire proposal (Item 12), long term. BSC has Withdrawn this proposal.	N/A
BSC 04/19-12-5	<u>A5.107.3 Nighttime conditions</u>	Further Study	Withdraw		New code section to address night time lighting and scheduling of services during certain times of year. CAC: recommended fundamental study of the entire proposal (Item 12), long term. BSC has Withdrawn this proposal.	N/A
BSC 04/19-12-6	<u>A5.107.3.1 Systems or operation and maintenance manual</u>	Further Study	Withdraw		New code section to address written recommendations for lighting and service schedules for operations manuals. CAC: recommended fundamental study of the entire proposal (Item 12), long term. BSC has Withdrawn this proposal.	N/A

INDOOR WATER USE (VOLUNTARY)
APPENDIX A5 – NONRESIDENTIAL VOLUNTARY MEASURES
SECTION A5.303 – INDOOR WATER USE

Amend sections listed below

Item Number 13	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-13-1	TABLE A5.303.2.2 Water Use Baseline (PER-FORMANCE METHOD)	Approve as Submitted	Accept		Amend the shower head flow rate from 2.0 to 1.8 gpm to align with the codified code language in the mandatory chapter 5, Indoor Water Use, Section 5.303.3.3. Amend footnote 2 to from Table A to Table 4-1. Water Use Baseline table title amended to add the term "PERFORMANCE METHOD."	Approved
BSC 04/19-13-2	TABLE A5.303.2.3.1 FIXTURE FLOW RATES (PRE-SCRIPTIVE METHOD)	Approve as Submitted	Accept		Amend the shower head flow rate 2.0 to 1.8 gpm to align with the codified code language found in the mandatory chapter 5, Indoor Water Use, Section 5.303.3.3. Fixture Flow Rates table title amended to add the term "PRESCRIPTIVE METHOD."	Approved
BSC 04/19-13-3	A5.303.3 Appliances and fixtures for commercial application	Approve as Submitted	Accept		Relocate code item 7 and renumber item 8 and 8.1 into items 7 and 7.1 CAC: Repeal the proposed amendment to strike residential dishwashers from this code section for nonresidential applications. Code section will remain in the code	Approved

MATERIAL SOURCES (VOLUNTARY)
APPENDIX A5 – NONRESIDENTIAL VOLUNTARY MEASURES
SECTION A5.405 – MATERIAL SOURCES

Amend sections listed below

Item Number 14	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-14-1	A5.405.2.1 Certified wood.	Approve as Amended	Accept		Amend section to repeal superfluous information. CAC: recommends repeal entirely. Per criteria 4. Existing code section will be repealed.	Approved
BSC 04/19-14-2	A5.405.3 Reused materials	Approve as Submitted	Accept		Amend section to add a website link for additional resources from CalRecycle's website for reused materials list.	Approved

POLLUTANT CONTROL (VOLUNTARY)
APPENDIX A5 – NONRESIDENTIAL VOLUNTARY MEASURES
SECTION A5.504 – POLLUTANT CONTROL

Amend sections listed below

Item Number 15	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-15-1	A5.504.4.7 Resilient flooring systems, Tier 1	Approve as Submitted	Accept	Josh Jacobs, Underwriters Laboratory, recommends Approve as Amended	Amend section to update the standard for California Department of Public Health (CDPH) for Volatile Organic Compounds (VOC) limits. Add link to CDPH website for a list of approved certification programs and testing labs. CAC: recommended to review this amendment with other state agencies and interested parties. See ISOR. 45-Day: See FSOR for agency response.	Approved

BSC 04/19-15-2	A5.504.4.7.1 Resilient flooring systems, Tier 2	Approve as Submitted	Accept	Josh Jacobs, Underwriters Laboratory, recommends Approve as Amended	Amend section to update the standard for (CDPH) for (VOC) limits for Tier 2, Resilient flooring systems. Add link to CDPH website for a list of approved certification programs and testing labs. CAC: recommended to review this amendment with other state agencies and interested parties. See ISOR 45-Day: See FSOR for agency response.	Approved
BSC 04/19-15-3	A5.504.4.8 Thermal insulation, Tier 1	Approve as Submitted	Accept	Josh Jacobs, Underwriters Laboratory, recommends Approve as Amended	Amend section to update the standard for (CDPH) for (VOC) limits for Tier, thermal insulation. Add link to CDPH website for a list of approved certification programs and testing labs. CAC: recommended to review this amendment with other state agencies and interested parties. See ISOR 45-Day: See FSOR for agency response.	Approved
BSC 04/19-15-4	A5.504.4.9 Acoustical ceilings and wall panels	Approve as Submitted	Accept	Josh Jacobs, Underwriters Laboratory, recommends Approve as Amended	Amend section to update the standard for (CDPH) for (VOC) limits for acoustical ceilings and wall panels. Add link to CDPH website for a list of approved certification programs and testing labs. CAC: recommended to review this amendment with other state agencies and interested parties. See ISOR 45-Day: See FSOR for agency response.	Approved

BSC 04/19-15-5	A5.504.4.9.1 Verification of compliance	Approve as Submitted	Accept	Josh Jacobs, Underwriters Laboratory, recommends Approve as Amended	Repeal "Note" since referenced standard is now the CDPH standard which makes this note obsolete. CAC: recommended to review this amendment with other state agencies and interested parties. See ISOR 45-Day: See FSOR for agency response.	Approved
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DIVISION A5.6 – VOLUNTARY TIERS

SECTION A5.601 – CALGreen Tier 1 and Tier 2

Amend sections listed below

Item Number 16	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-16-1	TABLE A5.601 NONRESIDENTIAL BUILDINGS:	Approve as Submitted	Accept		Update table to incorporate the proposed mandatory and voluntary code updates as shown in items 1 through 15 as applicable to the affected code section shown in the table.	Approved

CALGreen VERIFICATION GUIDELINES

CHECKLISTS (Mandatory, Tier 1 and Tier 2)

Amend sections listed below

Item Number 17	Code Section	CAC Action	Agency Response	Public Comments	Annotations	CBSC Action
BSC 04/19-17-1	TABLE A5.602 MANDATORY CHECKLIST	Approve as Submitted	Accept		Update table to incorporate the proposed mandatory code updates as shown in Items 1 through 15 above as applicable to the affected code section shown in each table.	Approved

BSC 04/19-17-2	TABLE A5.602.1 TIER 1 CHECKLIST	Approve as Submitted	Accept		Update table to incorporate the proposed mandatory and voluntary code updates as shown in Items 1 through 15 above as applicable to the affected code section shown in each table.	Approved
BSC 04/19-17-3	TABLE A5.602.2 TIER 2 CHECKLIST	Approve as Submitted	Accept		Update table to incorporate the proposed mandatory and voluntary code updates as shown in Items 1 through 15 above as applicable to the affected code section shown in each table.	Approved