APPROVED BY THE CALIFORNIA BUILDING STANDARDS COMMISSION   
AUGUST 2, 2023

# COMMISSION ACTION MATRIX GREEN BUILDING (GREEN) CODE ADVISORY COMMITTEE

## 2022 California green building standards code, TITLE 24, PART 11 AGENCY: california building standards commission, BSC 04/22

### LEGEND:

**CAC Actions:** Approve, Disapprove, Approve as Amended, Further Study Required

**Agency Responses:** Accept, Disagree, Withdraw

**CBSC Actions:** Approve, Disapprove, Approve as Amended, Further Study Required

**Matrix Paper Color** (for commission action only): GREEN = uncontested items, YELLOW = challenged items, SALMON = withdrawn, no action required

If using assistive technology, please adjust your settings to recognize underline, strikeout and ellipsis.

* Existing California amendments appear upright
* Amended or new California amendments appear underlined
* Repealed California language appears ~~upright and in strikeout~~
* Ellipses ( ...) indicate existing text remains unchanged

### Chapter 2, Section 202 – definitions (electric vehicle related)

BSC proposes to adopt new and modify existing definitions as listed below.

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| **Item Number 1** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-1-1 | **ELECTRIC VEHICLE (EV) CHARGER** | Approve | Accept | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Disapprove or Amend** | Propose to adopt existing definition previously adopted only by HCD.  **BSC:** No further amendments made. See FSOR. | Approve |
| BSC 04/22-1-2 | **ELECTRIC VEHICLE CHARGING STATION (EVCS)** | Approve | Accept | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Disapprove and Amend** | Propose to adopt and modify existing definition (previously adopted HCD only). Modify to add the word receptacles.  **BSC:** No further amendments made. See FSOR. | Approve |
| BSC 04/22-1-3 | **ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE)** | Approve | Accept | No public comments received | Propose to modify existing definition to add “personnel protection system” to align with 2022 California Electrical Code. | Approve |
| BSC 04/22-1-4 | **LEVEL 2 ELECTRIC VEHICLE (EV) CHARGER** | Approve | Accept | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Disapprove or Amend** | Propose to adopt a new definition which aligns with HCD’s currently proposed which specifies minimum power amperage requirements.  **BSC:** No further amendments made. See FSOR. | Approve |
| BSC 04/22-1-5 | **LEVEL 2 ELECTRIC VEHICLE SUPPLY EQUIPMENT** | Approve | Accept | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Amend** | Propose to adopt and align with HCD’s previously adopted definition. Definition will allow the use of level 2 charging.  **BSC:** No further amendments made. See FSOR. | Approve |
| BSC 04/22-1-6 | **LOW POWER LEVEL 2 ELECTRIC VEHICLE (EV) CHARGING RECEPTACLE** | Approve | Accept | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Amend** | Propose to adopt and modify existing definition previously adopted by HCD. Modify to simplify removing superfluous information regarding EV driver.  **BSC:** No further amendments made. See FSOR. | Approve |

### Chapter 2, Section 202 – definitions (bird-friendly related)

BSC proposes to adopt new definitions as listed below.

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| **Item Number 2** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-2-1 | **2 X 2 RULE** | Approve | Accept | No public comments received | Propose to adopt new term to define the 2 x 2 rule for the protection of birds. | Approve |
| BSC 04/22-2-2 | **ADHESIVE MARKER** | Approve | Accept | No public comments received | Propose to adopt new term which markers can be transferred to glass to deter birds from flying into the glass. | Approve |
| BSC 04/22-2-3 | **FILM** | Approve | Accept | No public comments received | Propose to adopt new term which film can be applied to glass to help deter birds from hitting the glass. | Approve |
| BSC 04/22-2-4 | **GLASS, ACID ETCHED** | Approve | Accept | No public comments received | Propose to adopt new term. A treatment to glass to help deter the bird from flying into the glass. | Approve |
| BSC 04/22-2-5 | **GLASS, FRITTED** | Approve | Accept | No public comments received | Propose to adopt new term. A treatment to glass to help deter the bird from flying into the glass. | Approve |
| BSC 04/22-2-6 | **GLASS SURFACE** | Approve | Accept | No public comments received | Propose to adopt new term to help define the different layers of glass surfaces for installed windows. | Approve |
| BSC 04/22-2-7 | **MATURE TREE CANOPY** | Approve | Accept | No public comments received | Propose to adopt new term which defines the height of existing trees or vegetation near the buildings where glass windows are installed. | Approve |
| BSC 04/22-2-8 | **ULTRAVIOLET (UV)** | Approve | Accept | No public comments received | Proposed to adopt new term which states the electromagnetic radiation and wavelengths that birds have the ability to perceive when applied to glass. | Approve |
| BSC 04/22-2-9 | **VISUAL MARKER** | Approve | Accept | No public comments received | Propose to adopt new term. When a visual marker is applied to glass, they are most visible and effective for birds to detect. | Approve |

### Chapter 2, Section 202 – definitions (CALGreen carbon reduction related)

BSC proposes to adopt new definitions as listed below.

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| **Item Number 3** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-3-1 | **BUY CLEAN CALIFORNIA ACT** | Approve | Accept | **45-day public comments:**  The below support comments are for all Subitems of Item 3:  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Adrienne Etherton, **Approve**  Vikas Shrestha, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to adopt new definition that defines a maximum acceptable GWP for each category of eligible materials. | **Approve** |
| BSC 04/22-3-2 | **CRADLE-TO-GATE** | Approve | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-3-1 | Propose to adopt new definition that aligns with industry standards that defines the carbon impact of a building product the moment it is produced to being installed in a structure. | Approve |
| BSC 04/22-3-3 | **CRADLE-TO-GRAVE** | Approve | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-3-1 | Propose to adopt new definition that aligns with industry standards that defines the entire lifecycle of a product. | Approve |
| BSC 04/22-3-4 | **DECONSTRUCTION** | Approve | Withdraw | **No action taken** | Propose to adopt new term which is used in Section 5.408.1.  **BSC:** BSC chose to withdraw the proposed code changes. See ISOR. | N/A |
| BSC 04/22-3-5 | **TYPE III ENVIRONMENTAL PRODUCT DECLARATION (EPD)** | Approve | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-3-1 | Propose to adopt new definition that addresses a third party verified report that summarizes how product impacts the environment. | Approve |
| BSC 04/22-3-6 | **PRODUCT-SPECIFIC EPD** | Approve | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-3-1 | Propose to adopt new definition that identifies environmental impacts attributed to product design and manufacturing across multiple facilities. | Approve |
| BSC 04/22-3-7 | **FACTORY-SPECIFIC EPD** | Approve | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-3-1 | Propose to adopt new definition that identifies environmental impacts to single manufacturing and manufacturing facility | Approve |
| BSC 04/22-3-8 | **INDUSTRY-WIDE EPD (IW-EPD)** | Approve | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-3-1 | Propose to adopt new definition that identifies environmental impacts of typical manufacturing impacts for a range of products within same product category for group of manufacturing. | Approve |
| BSC 04/22-3-9 | **REFERENCE STUDY PERIOD** | Approve | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-3-1 | Propose to adopt new definition that identifies life cycle assessment for the period of use for the building. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.1- PLANNING AND DESIGN, SECTION 5.105 - DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

BSC proposes to adopt new sections into the 2022 CALGreen as listed below.

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| **Item Number 4** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-4-1 | **5.105 Deconstruction and reuse of existing structures ~~(Reserved)~~** | Approve as Amended | Accept | **45-day public comments:**  The below support comments are for all Subitems of Item 4:  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal “~~(Reserved)~~” from the Title.  **CAC: Criteria 6**  **BSC:** No changes to ET since CAC recommended changes to Item 4-2 only. | Approve |
| BSC 04/22-4-2 | **5.105.1 Scope.**  **& Exception** | Approve as Amended | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-4-1 | Propose to adopt new scoping section which includes additions/alterations of combined floor area 50,000 sq ft or greater to comply with 4 options.  **CAC: Criteria 6** – Add “altered” for the floor area and make effective date and square foot application be stepped (100,000 square feet effective July 1, 2024, and 50,000 square feet effective January 1, 2026). | Approve |
| BSC 04/22-4-3 | **5.105.2 Reuse of existing building.** | Approve as Amended | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-4-1 | Propose to adopt new section addressing the reuse of existing buildings primary structural elements.  **CAC: Criteria 6**  **BSC:** No changes to ET since CAC recommended changes to Item 4-2 only. | Approve |
| BSC 04/22-4-4 | **5.105.2.1 Verification of compliance & Note** | Approve as Amended | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-4-1 | Propose to adopt new section requiring documentation to demonstrate compliance.  **CAC: Criteria 6**  **BSC:** No changes to ET since CAC recommended changes to Item 4-2 only. | Approve |
| BSC 04/22-4-5 | **5.105.3 Deconstruction (reserved)** | Approve as Amended | Accept | **45-day public comments:**  See support public comments in Item BSC 04/22-4-1 | This section is added as a place holder for future use to address the deconstruction portion of the main section.  **CAC: Criteria 6**  **BSC:** No changes to ET since CAC recommended changes to Item 4-2 only. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.1- PLANNING AND DESIGN, SECTION 5.106 - SITE DEVELOPMENT

BSC proposes to adopt new and modify existing sections into the 2022 CALGreen as listed below.

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| **Item Number 5** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-5-1 | **5.106.5.3 Electric vehicle (EV) charging. [N] [BSC-CG]** | Approve | Disagree | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Amend** | Propose to modify to clarify compliance of EVCS regulations. Add BSC-CG banner.  **After CAC, BSC:** See ISOR for rationale.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-5-2 | **5.106.5.3.2 Electric vehicle charging stations (EVCS).** | Approve | Accept | **45-day public comments:**  T. Sanchez & N. Dickerson, Tesla, **Approve**  Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox, **Approve**  CA Statewide Utility Codes and Standards, **Amend** | Propose to modify to allow the use of DCFC’s to be substituted for Level 2 EVSE.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-5-3 | **5.106.5.3.2.1** | Approve | Accept | **45-day public comments:**  Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox, **Amend**  CA Statewide Utility Codes and Standards, **Amend**  **15-day comments:**  Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Kristian Corby – CalETC, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox and Kevin Loscotoff – Walmart, **Amend** | Propose to modify subsection to allow more flexibility to install DCFC in certain occupancies with short dwell time.  **After 45-day, BSC**: No further amendments made. See FSOR.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-5-4 | **5.106.5.3.2.2** | Approve | Accept | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Amend** | Propose to adopt new section to allow the use of low power level 2 receptacle to be substituted for EV capable spaces without EVSE.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-5-5 | **5.106.5.3.4** Accessible **electric vehicle charging station** **(**EVCS**)**. | Approve | Accept | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Amend** | Propose to modify the title.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-5-6 | **~~Note~~** | Approve | Accept | No public comments received | Propose to repeal Note on signage and add to new Section 5.106.5.3.5 | Approve |
| BSC 04/22-5-7 | **5.106.5.3.5 Electric vehicle charging station signage.** | Approve | Accept | **45-day public comments:**  T. Sanchez & N. Dickerson, Tesla, **Amend** | Propose to adopt new section which identifies signage for EVCS.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-5-8 | **Table 5.106.5.3.1** | Approve | Accept | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Amend** | Propose to modify tables footnote adding a third footnote identifying one level 2 EVSE to be provided.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-5-9 | **5.106.5.3.6 Electric vehicle charging stations (EVCS)-Power allocation method.** | Approve | Accept | **45-day public comments:**  T. Sanchez & N. Dickerson, Tesla, **Amend**  CA Statewide Utility Codes and Standards, **Amend**  Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox, **Amend**  **15-day comments:**  Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Kristian Corby – CalETC, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox and Kevin Loscotoff – Walmart, **Approve** | Propose to adopt new section for new power allocation method.  **After 45-day, BSC**: In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-5-10 | **Table 5.106.5.3.6 with footnotes** | Approve | Disagree | **45-day public comments:**  CA Statewide Utility Codes and Standards, **Amend**  **15-day comments:**  Ryan McCathry – Weideman Group along with Matthew Estipona – ABC NorCal, Kristian Corby – CalETC, Orville Thomas – CALSTART, Anthony Willingham – Electrify America, Noah Garcia – EVgo, Adam Mohabbat – Wallbox and Kevin Loscotoff – Walmart, **Amend** | Propose to adopt new table identifying the required EV capable spaces and total kVA’s with 4 new footnotes.  **After CAC, BSC:** See ISOR for rationale.  **After 45-day, BSC**: In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.1- PLANNING AND DESIGN, SECTION 5.106 - SITE DEVELOPMENT

BSC proposes to adopt new sections into the 2022 CALGreen as listed below.

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| **Item Number 6** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-6-1 | **5.106.5.4** **Additions or Alterations to existing buildings or parking facilities [A]. [BSC-CG]** | Approve | Accept | No public comments received | Propose to adopt new section for additions/alterations to existing buildings or parking facilities and the installation of EV charging requirements, with exceptions. | Approve |
| BSC 04/22-6-2 | **5.106.5.4.1 Existing buildings or parking areas without previously installed EV capable infrastructure [A].** | Approve | Accept | No public comments received | Propose to adopt new section identifying the triggers for existing buildings or parking areas without previously installed EV Capable infrastructure. | Approve |
| BSC 04/22-6-3 | **5.106.5.4.2 Existing buildings or parking areas with previously installed EV capable infrastructure [A].** | Approve | Accept | No public comments received | Propose to adopt new section identifying the triggers for existing buildings or parking areas with previously installed EV Capable infrastructure. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.1- PLANNING AND DESIGN, SECTION 5.106 - SITE DEVELOPMENT

BSC proposes to adopt new and modify existing sections into the 2022 CALGreen as listed below.

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| **Item Number 7** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-7-1 | **~~5.106.5.4~~**  **5.106.5.5** Electric vehicle (EV) charging: medium-duty and heavy-duty. | Approve | Accept | No public comments received | Propose to modify mandatory requirements to install EV future installations, adding office buildings and manufacturing facilities paragraph. Modify section number to align with new additions to code. | Approve |
| BSC 04/22-7-2 | **~~5.106.5.4.1~~**  **5.106.5.5.1** | Approve | Accept | No public comments received | Propose to modify Section numbering to align with new additions to code. | Approve |
| BSC 04/22-7-3 | **Table ~~5.106.5.4.1~~**  **5.106.5.5.1** | Approve | Accept | No public comments received | Propose to modify Table Section number and adopt new “building types” within the table. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.401

BSC proposes to modify existing section in the 2022 CALGreen as listed below.

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| **Item Number 8** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-8-1 | **5.401.1** Scope. | Approve | Accept | No public comments received | Propose to modify section to provide GHG emission reduction and provide clarity. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.402 – DEFINITIONS

BSC proposes to add new terms to this section in the 2022 CALGreen as listed below.

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| **Item Number 9** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-9-1 | **5.402 Definitions.** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Laura Karnath, **Approve as Amended**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve** | Propose to add new terms to this section.  **BSC:** REFERENCE BASELINE BUILDING replaced with REFERENCE STUDY PERIOD in Section 5.402 in 15-day ET. See FSOR for explanation. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.408 – CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

BSC proposes to modify existing section in the 2022 CALGreen as listed below.

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| **Item Number 10** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-10-1 | **5.408.1** **Construction waste management.** | Further Study | Withdraw | **No action taken** | Propose to modify existing section to include industry terms and clarify the types of nonhazardous building waste.  **CAC: Criteria 6** – “Organic” Building Material.  **BSC:** Upon further review BSC chose to withdraw the proposed code changes. See ISOR. | N/A |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.409 LIFE CYCLE ASSESSMENT

BSC proposes to adopt new sections into the 2022 CALGreen as listed below.

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| **Item Number 11** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-11-1 | **5.409 Life cycle assessment ~~(Reserved)~~** | Approve as Amend | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  **15-day public comments:**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to repeal “~~(Reserved)~~” from the Title.  **CAC: Criteria 4**  **After CAC, BSC:** No changes to ET since CAC recommended changes to Items 11-2 and 11-3 only.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-11-2 | **5.409.1 Scope.** | Approve as Amend | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  **15-day public comments:**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to adopt new scoping section for newly constructed buildings >50,000 sq ft to comply with carbon reduction paths.  **CAC: Criteria 4** – Add “altered” for the floor area and make effective date and square foot application be stepped (100,000 square feet effective July 1, 2024, and 50,000 square feet effective January 1, 2026).  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-11-3 | **5.409.2 Whole building life cycle assessment.** | Approve as Amend | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  Simon Rees – Arup, **Approve** with recommendations for future cycle**.**  Tien Peng – NRMCA, **Approve as Amended**  Jeff Bradley – AWC, **Approve as Amended**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Michael Cudahy – PPFA, **Further Study Required**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section which identifies whole building life cycle assessment “cradle-to-grave.”  **CAC: Criteria 4** – Remove the reference standard years from the language in this section.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC:** No further amendments made. See FSOR. | Approve |
| BSC 04/22-11-4 | **5.409.2.1 Building components.** | Approve as Amend | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  Laura Karnath, **Approve as Amended.**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section which clarifies which building components are included in life cycle analysis.  **CAC: Criteria 4**  **After CAC, BSC:** No changes to ET since CAC recommended changes to Items 11-2 and 11-3 only.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-11-5 | **5.409.2.2 Reference study period.** | Approve as Amend | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  **15-day public comments:**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section which specifies 60 years assumed building lifespan.  **CAC: Criteria 4**  **After CAC, BSC:** No changes to ET since CAC recommended changes to Items 11-2 and 11-3 only.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-11-6 | **5.409.2.3 Verification of compliance** | Approve as Amend | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Rachelle Habchi – SEAOSC, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Charley Rea – CalCIMA, **Approve**  Michael Malinowski – AIACA, **Approve as Amended**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section which specifies GWP analysis to be included in construction documentation.  **CAC: Criteria 4.**  **After CAC, BSC:** No changes to ET since CAC recommended changes to Items 11-2 and 11-3 only.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.409 LIFE CYCLE ASSESSMENT

BSC proposes to adopt new sections into the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 12** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-12-1 | **5.409.3 Product GWP compliance – prescriptive** path. | Approve | Accept | **45-day public comments:**  Lisa Podesto, **Approve.**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  **15-day public comments:**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section addressing additional compliance paths for acceptable GWP values.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-12-2 | **5.409.3.1 & Exception** | Approve | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski –AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  Laura Karnath, **Approve as Amended**  **15-day public comments:**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to adopt new section addressing industry feedback regarding: “California may not be able to comply with prescriptive acceptable GWP values for concrete/cement.”  **After 45-day, BSC**: No further amendments made. See FSOR.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-12-3 | **Exception EQUATION 5.409.3.1** | Approve | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  Bryce Tanner – Arup, **Approve as Amended**  Laura Karnath, **Approve as Amended**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to add new calculation, a weighted average maximum GWP using the exception equation.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-12-4 | **5.409.3.2 Verification of compliance** | Approve | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Charley Rea – CalCIMA, **Approve**  Michael Malinowski – AIACA, **Approve as Amended**  Bryce Tanner – Arup, **Approve as Amended**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Proposes to adopt new section which specifies calculations to demonstrate compliance to Type III EPDs in construction documentation.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-12-5 | **Table 5.409.3 Product GWP limits &**  **Footnotes** | Approve | Accept | **45-day public comments:**  Lisa Podesto, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Sara Neff, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Charley Rea – CalCIMA, **Approve**  Simon Rees – Arup, **Approve** with recommendations for future cycle.  Rachelle Habchi – SEAOSC, **Aprove as Amended**  Tien Peng – NRMCA, **Aprove as Amended**  Bryce Tanner – Arup, **Approve as Amended**  Laura Karnath, **Approve as Amended**  Josh Jacobs – WAP Sustainability, **Approve as Amended**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Bob Raymer –CBIA, CBPA, BOMA, CAA, **Further Study Required**  Brady Guertin – CALBO, recommendation unknown | Propose to adopt new Table with product GWP limits.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |

### Chapter 5, NONRESIDENTIAL MANDATORY MEASURES, DIVISION 5.4 – MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION 5.410 BUILDING MAINTANANCE AND OPERATION

BSC proposes to modify section listed below in the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 13** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-13-1 | **5.410.2 Commissioning.** | Approve | Accept | No public comments received | Propose to modify informational notes in this section. | Approve |

### Chapter 6, REFERENCED ORGANIZATIONS AND STANDARDS, AND MATERIALS, SECTION 601 GENERAL

BSC proposes to add new referenced standards and organizations to the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 14** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-14-1 | **601.1** | Approve | Disagree | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  **15-day public comment:**  Michael Malinowski – AIACA, **Approve** | Propose to add new referenced standards and organizations listed in ET.  BSC added additional reference standards that were not caught in the initial submittal. BSC also corrected the reference standard years in response to friendly CAC comments. | Approve |

### Chapter 8, COMPLIANCE FORMS, WORKSHEETS AND REFERENCE MATERIALS

BSC proposes to adopt new worksheets into the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 15** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-15-1 | **Worksheet (WS-3) Section 5.105.2 Building Reuse** | Approve | Accept | **45-day public comments:**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet for building reuse to assist is showing compliance.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-15-2 | **Worksheet (WS-4) Section 5.409.2 Whole Building Life Cycle Assessment** | Approve | Withdraw | **45-day public comments:**  Michael Malinowski – AIACA, **Approve as Amended** to add back and develop the worksheet  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet for whole building life cycle assessment assist in showing compliance.  **After CAC, BSC:** BSC realized this worksheet was not needed and it was withdrawn.  **After 45-day, BSC:** In response to 45-day comment, BSC added back and developed the worksheet in 15-day ET. See 15-day ET and FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-15-3 | **Worksheet (WS-5) Section 5.409.3 Product GWP Compliance Prescriptive Path** | Approve | Withdraw | **45-day public comments:**  Michael Malinowski – AIACA, **Approve as Amended**  to add back and develop the worksheet  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet, verification of GWP compliance.  **After CAC, BSC:** BSC realized this worksheet was not needed and it was withdrawn.  **After 45-day, BSC:** In response to 45-day comment, BSC added back and developed the worksheet in 15-day ET. See 15-day ET and FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-15-4 | **Worksheet (WS-6) Section A5.105.2 Building Reuse Tier 1 and Tier 2** | Approve | Accept | **45-day public comments:**  Rachelle Habchi – SEAOSC, **Approve**  Colleen FitzSimons – SDGBC, **Approve**  Charles Stott – Stott Architects, **Approve**  Ismar Enriquez, **Approve**  Pauline Souza – WRNS Studio, **Approve**  Rona G. Rothenberg, **Approve**  Seth Dunn, **Approve**  William E Leddy – AIA California, **Approve**  Vikas Shrestha, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  **15-day public comment:**  Michael Malinowski – AIACA, **Approve**  Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet to show compliance for building reuse Tiers 1 & 2.  **After CAC, BSC:** Worksheet renumbered since WS-4 and 5 were withdrawn.  **After 45-day, BSC:** In response to 45-day comment, BSC added back and developed WS-4 and WS-5, so the worksheet was renumbered back to WS-6 in 15-day ET.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-15-5 | **Worksheet (WS-7)**  **Section A5.409.2 Whole Building Life Cycle Assessment** | Approve | Withdraw | **45-day public comments:**  Michael Malinowski – AIACA, **Approve as Amended**  to add the worksheet  **15-day public comment:**  Michael Malinowski – AIACA, **Approve**  Brady Guertin – CALBO, recommendation unknown | New worksheet added in 15-day ET after 45-day public comment period has been completed.  **After 45-day, BSC:** In response to 45-day comment, BSC added and developed the worksheet in 15-day ET. See 15-day ET and FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-15-6 | **Worksheet (WS-8) Section A5.409.3 Product GWP Compliance – Prescriptive Path** | Not Reviewed By CAC |  | **45-day public comments:**  Michael Malinowski – AIACA, **Approve as Amended**  to add back and develop the worksheet  **15-day public comment:**  Michael Malinowski – AIACA, **Approve**  Brady Guertin – CALBO, recommendation unknown | Propose to add new worksheet for verification of compliance for product GWP.  **After CAC, BSC:** BSC realized this worksheet was not needed and it was withdrawn.  **After 45-day, BSC:** In response to 45-day comment, BSC added back and developed the worksheet in 15-day ET. See 15-day ET and FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-15-7 | **Worksheet (WS-9)**  **Section 5.409.2 and Section A5.409.2 Whole Building Life Cycle Assessment** | Not Reviewed By CAC |  | **15-day public comment:**  Michael Malinowski – AIACA, **Approve** | **After 45-day, BSC:** New voluntary worksheet added in 15-day ET after 45-day public comment period has been completed. See 15-day ET and FSOR for explanation. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.1- PLANNING AND DESIGN, SECTION A5.105 DECONSTRUCTION AND REUSE OF EXISTING STRUCTURES

BSC proposes to repeal existing language and replace with new text in the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 16** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-16-1 | **~~A5.105.1~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal existing voluntary section and move to requirements for Tier 1 and 2 | Approve |
| BSC 04/22-16-2 | **~~A5.105.1.1 Existing building structure.~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal existing voluntary section and move to requirements for Tier 1 and 2 | Approve |
| BSC 04/22-16-3 | **~~A5.105.1.2 Existing nonstructural elements.~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal existing voluntary section and move to requirements for Tier 1 and 2 | Approve |
| BSC 04/22-16-4 | **~~A5.105.1.3 Salvage.~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal existing voluntary section and move to requirements for Tier 1 and 2 | Approve |
| BSC 04/22-16-5 | **A5.105.1 Scope** **& Exceptions** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to add new text to this section to identify scope for Tier 1 & 2 paths for alterations/additions for buildings >50,000 sq ft. | Approve |
| BSC 04/22-16-6 | **A5.105.2 Reuse of existing building.** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to add new text to this section to identify options listed in scope for reuse of existing buildings. | Approve |
| BSC 04/22-16-7 | **A5.105.2.1 Tier 1** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to add new text to this section for compliance with Tier 1 for the reuse of existing buildings. | Approve |
| BSC 04/22-16-8 | **A5.105.2.2 Tier 2** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to add new text to this section for compliance with Tier 2 for the reuse of existing buildings. | Approve |
| BSC 04/22-16-9 | **A5.105.2.3 Verification of compliance & Note** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to add new text to this section to identify the documentation needed to verify compliance. | Approve |
| BSC 04/22-16-10 | **A5.105.3 Deconstruction (reserved)** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to add Title “Deconstruction (Reserved)” for future use. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.1 - PLANNING AND DESIGN, SECTION A5.106 SITE DEVELOPMENT

BSC proposes to modify existing sections and add new sections to the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 17** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-17-1 | **A5.106.5.1** Designated parking for clean air vehicles. | Approve | Accept | No public comments received | Propose to modify section to remove fuel efficient and replace with high efficient. | Approve |
| BSC 04/22-17-2 | **A5.106.5.1.1** Tier 1. | Approve | Accept | No public comments received | Propose to modify section to remove fuel efficient and replace with high efficient for Tier 1. | Approve |
| BSC 04/22-17-3 | **A5.106.5.1.2** Tier 2. | Approve | Accept | No public comments received | Propose to modify section to remove fuel efficient and replace with high efficient for Tier 2. | Approve |
| BSC 04/22-17-4 | **A5.106.5.1.3 Future charging spaces & Note** | Approve | Accept | **45-day public comments:**  T. Sanchez & N. Dickerson, Tesla, **Amend** | Propose to add new section for EV future spaces needed to clarify spaces count toward designated parking to clean air vehicles.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-17-5 | **A5.106.5.1.~~3~~ 4** Parking stall markings. | Approve | Accept | No public comments received | Propose to modify the section number to align with new code sections. | Approve |
| BSC 04/22-17-6 | **A5.106.5.1.~~4~~ 5** Vehicle designations. | Approve | Accept | No public comments received | Propose to modify the section number to align with new code sections. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.1 - PLANNING AND DESIGN, SECTION A5.106 SITE DEVELOPMENT

BSC proposes to modify existing sections and add new sections/tables to the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 18** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-18-1 | **A5.106.5.3** Electric vehicle (EV) charging. [N] | Approve | Accept | No public comments received | Propose to modify section adding Tier 1 & 2 to the text. | Approve |
| BSC 04/22-18-2 | **A5.106.5.3.1 Tier 1** | Approve | Disagree | **45-day public comments:**  California Statewide Utility Codes and Standards; **Amend** | Proposes to modify text to refer code user to the proper mandatory section.  **BSC:** See ISOR for rationale.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-18-3 | **Table A5.106.5.3.1 Tier 1** | Approve | Accept | **45-day public comments:**  California Statewide Utility Codes and Standards; **Amend** | Propose to modify the title for Table A5.106.5.3.1 by adding the word “Tier 1” after the table number.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-18-4 | **A5.106.5.3.2** **Electric vehicle charging stations (EVCS)-Power allocation method.** | Approve | Accept | **45-day public comments:**  California Statewide Utility Codes and Standards; **Amend** | Propose to add new section for power allocation method and associated table.  **After 45-day, BSC**: In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET for this related voluntary code section. See FSOR for explanation. | Approve |
| BSC 04/22-18-5 | **Table A5.106.5.3.2 Tier 1** | Approve | Disagree | **45-day public comments:**  California Statewide Utility Codes and Standards; **Amend** | Propose to add new table showing the actual parking and required EV capable spaces converted into kVA. Tier 1.  **BSC:** See ISOR for rationale.  **After 45-day, BSC**: In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET for this related voluntary code section table. See FSOR for explanation. | Approve |
| BSC 04/22-18-6 | **A5.106.5.3.~~2~~ 3 Tier 2** | Approve | Disagree | **45-day public comments:**  California Statewide Utility Codes and Standards; **Amend** | Propose to modify section and change the section number. To refer the code user to the appropriate mandatory code section for EV capable.  **BSC:** See ISOR for rationale.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-18-7 | **Table A5.106.5.3.~~2~~ 3 Tier 2** | Approve | Accept | **45-day public comments:**  California Statewide Utility Codes and Standards; **Amend** | Propose to modify table and by adding Tier 2 and modify table number. A new footnote.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-18-8 | **A5.106.5.3.4 Electric vehicle charging stations (EVCS)-Power allocation method.** | Approve | Accept | **45-day public comments:**  California Statewide Utility Codes and Standards; **Amend** | Propose to add new section EVCS power allocation method and associated table.  **After 45-day, BSC** In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET for this related voluntary code section. See FSOR for explanation. | Approve |
| BSC 04/22-18-9 | **Table A5.106.5.3.4 Tier 2** | Approve | Disagree | **45-day public comments:**  California Statewide Utility Codes and Standards; **Amend** | Propose to add new table showing the actual parking and required EV capable spaces converted into kVA. Tier 2.  **BSC:** See ISOR for rationale.  **After 45-day, BSC**: In response to 45-day comments to Section 5.106.5.3.6, BSC proposed some modifications to the language in 15-day ET for this related voluntary code section table. See FSOR for explanation. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.1 – PLANNING AND DESIGN, SECTION A5.106 SITE DEVELOPMENT

BSC proposes to add new and modify existing sections in the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 19** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-19-1 | **A5.106.11 Reduction of ~~H~~h**eat island effect. | Approve | Accept | No public comments received | Propose to modify edit to the title and scope to accommodate hardscape alternatives, cool roofs, and shade trees. | Approve |
| BSC 04/22-19-2 | **A5.106.11.2** Cool roof **~~for reduction of heat island effect~~**. | Approve | Accept | No public comments received | Propose minor editorial modification to the title and text. | Approve |
| BSC 04/22-19-3 | **A5.106.11.~~3~~.2.4** Verificationofcompliance. | Approve | Accept | No public comments received | Propose to renumber section number. | Approve |
| BSC 04/22-19-4 | **A5.106.11.3 Shade trees. [BSC-CG]** | Approve | Accept | No public comments received | Propose new voluntary measures for shade trees. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.1 - PLANNING AND DESIGN, SECTIONS A5.102 DEFINITIONS AND A5.107 BIRD-FRIENDLY BUILDING DESIGN

BSC proposes to add new sections into the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 20** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-20-1 | **A5.102.1 Definitions.** | Approve | Accept | **45-day public comments:**  Daniel Klem – Muhlenberg College and James Cubie – Acopian Center for Ornithology, **Approve**  Donna Marciano - San Joaquin Audubon Society, **Approve** | Propose to add new terms to this section. | Approve |
| BSC 04/22-20-2 | **A5.107 Bird-friendly building design & Exception** | Further Study | Accept | **45-day public comments:**  Daniel Klem – Muhlenberg College and James Cubie – Acopian Center for Ornithology, **Approve**  Donna Marciano - San Joaquin Audubon Society, **Approve** | Propose to add new section which includes scoping section to bird friendly design.  **CAC:** Criteria 6 – remove “note” & “high” just have severity zones, add historic reference (decorative windows).  **After CAC, BSC:** Upon further study, BSC made changes. See the ISOR. | Approve |
| BSC 04/22-20-3 | **A5.107.1 Required elevation treatment & Sub-numbers 1 with Notes & 2** | Approve | Accept | **45-day public comments:**  Daniel Klem – Muhlenberg College and James Cubie – Acopian Center for Ornithology, **Approve**  Donna Marciano - San Joaquin Audubon Society, **Approve**  Jeff Rank –CollidEscape, **Approve as Amended** | Propose to add new section which includes glazing that covers the many design aspects for windows to minimize the risk of bird collisions.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-20-4 | **A5.107.2 Special conditions.** | Approve | Disagree | **45-day public comments:**  Daniel Klem – Muhlenberg College and James Cubie – Acopian Center for Ornithology, **Approve**  Donna Marciano - San Joaquin Audubon Society, **Approve** | Propose to add new section to minimize fly through conditions for birds.  **After CAC, BSC:** BSC made additional changes to include friendly amendments raised during the CAC meeting. See the ISOR. | Approve |
| BSC 04/22-20-5 | **A5.107.3 Nighttime conditions & Exception** | Further Study | Accept | **45-day public comments:**  Daniel Klem – Muhlenberg College and James Cubie – Acopian Center for Ornithology, **Approve**  Donna Marciano - San Joaquin Audubon Society, **Approve** | Propose to add new section to minimize nighttime collisions for birds.  **CAC:** Criteria 6 – Beacon light/FAA, consider astronomical time switch controls.  **After CAC, BSC:** Upon further study, BSC made changes. See the ISOR. | Approve |
| BSC 04/22-20-6 | **A5.107.3.1 Systems or operation and maintenance manual.** | Approve | Accept | **45-day public comments:**  Daniel Klem – Muhlenberg College and James Cubie – Acopian Center for Ornithology, **Approve**  Donna Marciano - San Joaquin Audubon Society, **Approve** | Propose to add new section regarding operation and maintenance manual for building’s interior lighting. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.4- MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, SECTION A5.401 GENERAl

BSC proposes to modify section in the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 21** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-21-1 | **A5.401.1 Scope** | Approve | Accept | No public comments received | Propose to amend main paragraph | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.4- MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, A5.402 DEFINITIONS

BSC proposes to add new definition terms to the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 22** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-22-1 | **A5.402.1 Definitions.** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  **15-day public comment:**  Michael Malinowski – AIACA, **Approve** | Propose to add new definitions | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.4- MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, A5.405 MATERIAL SOURCES

BSC proposes to add new section to the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 23** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-23-1 | **A5.405.2.1 ~~Reserved~~ Certified Wood Components - Sustainability Standards.** | Further Study | Accept | **45-day public comments:**  Jeff Bradley – AWC, **Approve as Amended** | Propose to a repeal “~~Reserved~~” and add new section addressing certified wood components – sustainability standards.  **CAC:** Criteria 4 – Determine the percentage requirement of certified wood for project. Determine the year for the ASTM D7612 standard.  **After CAC, BSC:** Changes made, see ISOR.  **After 45-day, BSC**: No further amendments made. See FSOR. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.4- MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, A5.405 MATERIAL SOURCES

BSC proposes to repeal and modify sections in the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 24** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-24-1 | **A5.405.5 Cement and concrete.** | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose editorial modification to point to compliance with Section A5.405 | Approve |
| BSC 04/22-24-2 | **A5.405.5.2 Concrete.** | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose modification to clarify Engineer of Record will approve the use of materials as shown. | Approve |
| BSC 04/22-24-3 | **A5.405.5.2.1** **Supplementary cementitious materials (SCM)**. | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose modification to provide new standard and italicize “SL” within the text. | Approve |
| BSC 04/22-24-4 | **A5.405.5.2.1.1 Mix design equation.** | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose to add a reference to ACI to the exception. | Approve |
| BSC 04/22-24-5 | **~~A5.405.5.3 Additional means of compliance.~~** | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose to repeal existing language. | Approve |
| BSC 04/22-24-6 | **~~A5.405.5.3.1 Cement~~**~~.~~ | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose to repeal existing language. | Approve |
| BSC 04/22-24-7 | **~~A5.405.5.3.1.1 Alternative fuels.~~** | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose to repeal existing language. | Approve |
| BSC 04/22-24-8 | **~~A5.405.5.3.1.2 Alternative power~~**~~.~~ | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose to repeal existing language. | Approve |
| BSC 04/22-24-9 | **A5.405.5.3~~.2~~ Concrete manufacture.** | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Formerly number A5.405.5.3.2 with an editorial modification to title and text. | Approve |
| BSC 04/22-24-10 | **~~A5.405.5.3.2.1 Alternative energy~~**~~.~~ | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose to repeal existing language. | Approve |
| BSC 04/22-24-11 | **A5.405.5.3.~~2.2~~ 1 Recycled aggregates**. | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Formerly number A5.405.5.3.2.2; new A5.405.3.1 propose to modify aggregate or crushed concrete. | Approve |
| BSC 04/22-24-12 | **A5.405.5.3.2~~.3~~ Mixing water**. | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Formerly number A5.405.5.3.2.3; new A5.405.5.3.2 | Approve |
| BSC 04/22-24-13 | **A5.405.5.3.~~2.4~~ 3 High strength concrete**. | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Formerly number A5.405.5.3.2.4; new A5.405.5.3.3 | Approve |
| BSC 04/22-24-14 | **A5.405.5.3.4** **Later Ages of Maturity** | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose to add new section which permits longer age of maturity for concrete in compliance with Standards. | Approve |
| BSC 04/22-24-15 | **A5.405.5.3.5 Returned Fresh Concrete** | Approve | Accept | **45-day public comments:**  Charley Rea – CalCIMA, **Approve** | Propose to add new section return/reuse fresh concrete. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.4- MATERIAL CONSERVATION AND RESOURCE EFFICIENCY, A5.409 LIFE CYCLE ASSESSMENT

BSC proposes to repeal, add new, and modify existing sections into the 2022 CALGreen as listed below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 25** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-25-1 | **~~A5.409.1 General.~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal and replace with Tier 1 & 2 scoping provisions for life cycle assessment. | Approve |
| BSC 04/22-25-2 | **A5.409.1 Scope & Exceptions** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose new sections that specify Tier 1 & 2 compliance, based on new project size. | Approve |
| BSC 04/22-25-3 | **A5.409.2 Whole building life cycle assessment.** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose new section for projects to meet the minimum requirements for whole building life cycle assessment. | Approve |
| BSC 04/22-25-4 | **A5.409.2.1 Tier 1 & Exception** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Tien Peng – NRMCA, **Approve as Amended**  Jeff Bradley – AWC, **Approve as Amended**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Michael Cudahy – PPFA, **Further Study Required** | Propose new section meeting the above requirements as Tier 1.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-25-5 | **A5.409.2.2 Tier 2 & Exception** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Tien Peng – NRMCA, **Approve as Amended**  Jeff Bradley – AWC, **Approve as Amended**  **15-day public comments:**  Michael Malinowski – AIACA, **Approve**  Michael Cudahy – PPFA, **Further Study Required** | Propose new section meeting requirements of A5.409.2 for Tier 2.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation.  **After 15-day, BSC**: No further amendments made. See FSOR. | Approve |
| BSC 04/22-25-5.1 | **A5.409.2.3 Verification of compliance.** | Not Reviewed By CAC |  | **45-day public comments:**  Michael Malinowski – AIACA, **Approve as Amended**  **15-day public comment:**  Michael Malinowski – AIACA, Approve | **After 45-day, BSC:** New section added in 15-day ET after 45-day public comment period has been completed. See 15-day ET and FSOR for explanation. | Approve |
| BSC 04/22-25-6 | **A5.409.3 Product GWP compliance – prescriptive path. A5.409.3.1. & Exception** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  **15-day public comment:**  Michael Malinowski – AIACA, **Approve** | Propose new section for compliance path for GWP. | Approve |
| BSC 04/22-25-7 | **Exception EQUATION**  **A5.409.3.1** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  **15-day public comment:**  Michael Malinowski – AIACA, **Approve** | Propose new exception equation for GWP. | Approve |
| BSC 04/22-25-8 | **A5.409.3.2 Verification of compliance.** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  Michael Malinowski – AIACA, **Approve as Amended**  **15-day public comment:**  Michael Malinowski – AIACA, **Approve** | Propose new section for verification of compliance calculations.  **After 45-day, BSC:** In response to 45-day comments, BSC proposed some modifications to the language in 15-day ET. See FSOR for explanation. | Approve |
| BSC 04/22-25-9 | **Table A5.409.3 PRODUCT GWP LIMITS TIER 1 AND TIER 2 & Footnotes** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve**  **15-day public comment:**  Michael Malinowski – AIACA, **Approve** | Propose new table for product GWP limits for Tier 1 & 2. | Approve |
| BSC 04/22-25-10 | **A5.409.~~2~~4** Whole building life cycle assessment of additional impacts. | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose editorial modifications and renumbered formerly A5.409.2 | Approve |
| BSC 04/22-25-11 | **~~A5.409.2.1 Building components.~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal existing language. | Approve |
| BSC 04/22-25-12 | **A5.409.~~2.2~~4.1** Impacts to be considered. | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose editorial modification and renumbered formerly A5.409.2.2 | Approve |
| BSC 04/22-25-13 | **~~A5.409.3 Materials and system assemblies.~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal existing language. | Approve |
| BSC 04/22-25-14 | **~~A5.409.4 Substitution for prescriptive standards.~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal existing language. | Approve |
| BSC 04/22-25-15 | **~~A5.409.5 Verification of compliance.~~** | Approve | Accept | **45-day public comments:**  Colleen FitzSimons – SDGBC, **Approve**  Suyama Bo – AIA Orange County Chapter, **Approve**  Adrienne Etherton, **Approve**  Hafsa Burt – HB+A Architects, **Approve**  Lauren Kubiak – NRDC, **Approve**  Hoi-Fei Mok – City of San Leandro, **Approve**  Timothy Burroughs – StopWaste, **Approve**  Kurt Hurley – City of Berkeley, **Approve**  Simon Rees – Arup, **Approve**  Michael Malinowski – AIACA, **Approve** | Propose to repeal existing language. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.6, SECTION A5.601 CALGREEN TIER 1 AND TIER 2

BSC proposes to modify and add new sections to the 2022 CALGreen as listed below.

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| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 26** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-26-1 | **A5.601.2.4 Voluntary measures for Tier 1.** | Approve | Accept | No public comments received | Propose editorial modification. | Approve |
| BSC 04/22-26-2 | **A5.601.3.1 Prerequisites.** | Approve | Accept | No public comments received | Propose new section which identifies prerequisites to provide charging language. | Approve |
| BSC 04/22-26-3 | **A5.601.3.4** Voluntary measures for Tier 2. | Approve | Accept | No public comments received | Propose modifications to remove referenced table no longer in code and modify referenced section number. | Approve |

### Appendix A5, NONRESIDENTIAL VOLUNTARY MEASURES, DIVISION A5.6, SECTION A5.602, VERIFICATION GUIDELINES, MANDAtorY MEASURES CHECKLISTS

BSC propose to adopt new checklists tables upon final proposed code updates as listed below.

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| --- | --- | --- | --- | --- | --- | --- |
| **Item Number 27** | **Code Section** | **CAC Action** | **Agency Response** | **Public Comments** | **Annotations** | **CBSC Action** |
| BSC 04/22-27-1 | **A5.602, A5.602.1 and A5.602.2 Checklists** | Approve | Accept | No public comments received | Mandatory measures checklist, Tier 1 & Tier 2 Checklists. Checklists tables will be updated based on the final proposed code updates in both mandatory and voluntary sections. | Approve |