

Hillary Gitelman Director

**Darrell Mayes Building Official** 

The California Building Standards Commission (BSC) and the Department of Housing and Community Development (HCD) are the best sources for understanding the new California Green Building Code.

### Why a State Green Building Code

The Governor vetoed numerous Green Building Bills in 2007. The need for a Standard was realized and the Governor directed the Building Standards Commission to develop green building standards through the Building Standards Commission code development process. The BCS started focus groups in June, 2007. Attendees included a mix of industry, non-profits, environmental groups and interested members of the public. Attendees expressed concerns that the CA Green Building Code would preclude local governments from adopting more stringent standards. That is not the case; as a matter of fact the code was developed to compliment other green building efforts being developed by local governments.

Section 101.7 of the CGBC expresses this intent. In that section it states, "It is the further intent of the BSC that all entities subject to this code view these standards as minimal Green Building Standards and that local government entities retain their discretion to exceed the standards established by this code.

#### Where Are We Now

California Green Building Standards were approved by the California Building Standards Commission on July 17, 2008. The GBC will be published no later than July 1, 2009; will be effective no later than July 1, 2009. Generally, all measures are voluntary until the 2010 CBC effective date (targeted for Jan.1, 2011) at which time most (17) provisions adopted by the Dept. of Housing and Community Development (HCD) will become mandatory.

### State Agency Adoptions

Building Standards Commission (BSC), Department of Housing and Community Development (HCD) and the Office of Statewide Health Planning and Development (OSHPD). The Division of the State Architect-Structural Safety (DSA-SS). DSA-SS has not adopted specific green building measures at this time. A combined version of the California Green Building Code is available online at www.bsc.ca.gov./prpsd stds/default.htm. This version contains matrices (similar to the other California Codes) that indicate the specific provisions adopted by each of the participating State Agencies. Here is an example of the Matrix Adoption Table. I have also included a copy of Green Application Checklists for the participating State Agencies. This will give you an example of what types of forms will be required.

#### CALLIFORNIA GREEN BUILDING STANDARDS CODE – MATRIX ADOPTION TABLE

| Adopting Agency   | BSC | SFV |   | HC | D    | T; | ٨  |   | 0 | SHFD |   | CSA | DH | AGR | DW | CcC | CA | SL | SLC |
|---|-----|-----|---|----|------|----|----|---|---|------|---|-----|----|-----|----|-----|----|----|-----|
|   |     |     | 1 | 2  | 1/AC | AC | •S | 1 | 2 | 3    | 4 |     | S  |     | R  |     |    | 1  |     |
| Adopt Entire CA Chapter   | Х   |     | Х |    |      |    |    | X | Х | Х    | X |     |    |     |    |     |    |    |     |
| Adopt Entire Chapter as amended (amended sections listed below) |     |     |   |    |      |    |    |   |   |      |   |     |    |     |    |     |    |    |     |
| Adopt only those sections that are listed below                 |     |     |   |    |      |    |    |   |   |      |   |     |    |     |    |     |    |    |     |
| Chapter / Section   |     |     |   | _  |      |    |    |   |   |      |   |     |    |     |    |     |    |    |     |
|   |     |     |   |    |      |    |    |   |   |      |   |     |    |     |    |     |    |    |     |

I have provided a sign up sheet for those that are interested in attending a presentation in more detail of the California Green Building Code.

# **CHAPTER 11**

# GREEN APPLICATION CHECKLIST (AC-BSC)

| PLANNING AND DESIGN  SITE DEVELOPMENT (406)  405.1 General. Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize neadwe effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.  406.2 Storm water drainage and retention during construction. Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall develop and implement a plan to manage storm water drainage during construction. Use one or more of the following methods:  1. Retention basins of sufficient size shall be utilized to retain storm water or the site.  2. Where storm water is conveyed to a public drainage system, collection point, gutter, or similar disposal method, water shall be filtered by use of a barrier system, wattes, or other method approved by the enforcing agency.  3. Compliance with a lawfully enacted storm water management ordinance.  ENERGY EFFICIENCY  PERFORMANCE REQUIREMENTS  [593]  593.1. The retain performance. Using an Alternative Calculation Method approved by the California Energy Commission, calculate each nonassidentia building a TDV energy and COcamissions, and compare it to the standard or budger building.  593.1.1 Titer 1. Exceed 2007 California Energy Code requirements by 30%.  PERSCRIPTIVE MEASURES  [594]  594.1 ENERGY STAR equipment and appliances  |   |          | <del>r -</del> |  |
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| ENERGY EFFICIENCY  PERFORMANCE REQUIREMENTS (503)  503.1 Energy performance. Using an Alternative Calculation Method approved by the California Energy Commission. calculate each nonresidential building's TDV energy and CO- emissions. and compare it to the standard or 'budget' building.  503.1.1 Tier 1. Exceed 2007 California Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES (504)  504.1 ENERGY STAR equipment and appliances. All equipment and appliances  | Water management ordinance                        |          |                | į į  |
| PERFORMANCE REQUIREMENTS  [503]  503.1 Energy performance. Using an Alternative Calculation Method approved by the California Energy Commission. calculate each nonresidential building's TDV energy and Coemissions, and compare it to the standard or 'budget' building.  503.1.1 Tier 1. Exceed 2007 California Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES  [504]  504.1 ENERGY STAR equipment and appliances   | ENERGY EFFICIENCY                                 |          |                | <del>                                     </del> |
| 503.1 Energy performance: Using an Alternative Calculation Method approved by the California Energy Commission. calculate each nonresidential building's TDV energy and CO2 emissions. and compare it to the standard or 'budget' building.  503.1.1 Tier 1. Exceed 2007 California Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES (504)  504.1 ENERGY STAR equipment and appliances. All equipment and appliances   |   |          |                |  |
| Alternative Calculation Method approved by the California Energy Commission. calculate each nonresidential building's TDV energy and CO2 emissions. and compare it to the standard or 'budget' building.  503.1.1 Tier 1. Exceed 2007 California Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES (504)  504.1 ENERGY STAR equipment and appliances  | (503)   | ]        |                |  |
| California Energy Commission. calculate each nonresidential building's TDV energy and CO2 emissions, and compare it to the standard or "budget" building.  503.1.1 Tier 1. Exceed 2007 California Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES  (504)  504.1 ENERGY STAR equipment and appliances  | 503.1 Energy performance. Using an                |          |                |  |
| nonresidential building's TDV energy and CO2 emissions, and compare it to the standard or 'budget' building.  503.1.1 Tier 1. Exceed 2007 California Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES  (504)  504.1 ENERGY STAR equipment and appliances   | Alternative Calculation Method approved by the    | i        |                |  |
| emissions, and compare it to the standard or  budget building.  503.1.1 Tier 1. Exceed 2007 California Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES  (504)  504.1 ENERGY STAR equipment and appliances   | California Energy Commission, calculate each      | ļ        |                | i .  |
| -budget* building.  503.1.1 Tier 1. Exceed 2007 California Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES  (504)  504.1 ENERGY STAR equipment and appliances   | emissions and compare it to the standard or       |          |                | ]  |
| Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES  (504)  504.1 ENERGY STAR equipment and appliances  | "budget" building.                                | ]        |                |  |
| Energy Code requirements by 15%.  503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES  (504)  504.1 ENERGY STAR equipment and appliances  | 503.1.1 Tier 1. Exceed 2007 California            |          | П              | i  |
| 503.1.2 Tier 2. Exceed 2007 California Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES (504)  504.1 ENERGY STAR equipment and appliances   | Energy Code requirements by 15%.                  |          |                |  |
| Energy Code requirements by 30%.  PRESCRIPTIVE MEASURES  (504)  504.1 ENERGY STAR equipment and appliances. All equipment and appliances.  |   | 1        | _              |  |
| 504) 504.1 ENERGY STAR equipment and appliances. All equipment and appliances  | Energy Code requirements by 30%.                  |          |                |  |
| 504.1 ENERGY STAR equipment and appliances   |   |          |                |  |
| appliances. All equipment and appliances   |   |          |                |  |
| appliances. All equipment and appliances   | 304.1 ENERGY STAR equipment and                   |          |                |  |
| DEDVICED by the builder chall be ENERGY CTAR I   | provided by the builder shall be ENERGY STAR      |          |                |  |
| lakala 12 ENEBAN ARABI   | labeled if ENERGY STAR is applicable to that      |          |                |  |
| equipment or appliance   | equipment or appliance                            |          | LJ [           |  |
| 504.2 Energy monitoring, Provide sub-  | 504.2 Energy monitoring, Provide sub-             |          |                |  |
| metering or equivalent combinations of sensor  | metering or equivalent combinations of sensor     | ı        |                |  |
| measurements and thermodynamic   | measurements and thermodynamic                    |          |                |  |
| calculations, if appropriate, to record energy use data for each major energy system in the  | data for each major operate, to record energy use | - 1      |                |  |
| building.  | building.   | ļ        |                | 1  |
|  |   | ]        |                |  |
| 504.3 Demand response. HVAC systems with   | 504.3 Demand response. HVAC systems with          |          |                |  |
| Direct Digital Control Systems and centralized   | Direct Digital Control Systems and centralized    | ļ        |                | 1  |
| lighting systems shall include pre-programmed  | ignung systems snall include pre-programmed       |          |                |  |

| GREEN BUILDING MEASURE  | REQUIRED | OPTIONAL | REQUIRED 3 <sup>RD</sup> PARTY VERIFICATION   |
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| demand response strategies that are automated with either a Demand Response Automation Internet Software Client or dry contact relays.  504.3.1 HVAC. The pre-programmed demand response strategies should be capable of reducing the peak HVAC demand by cooling temperature set point adjustment.   |          |          | VERIFICATION  |
| 504.3.2 Lighting. The pre-programmed demand response strategies should be capable of reducing the total lighting load by a minimum 30% through dimming control or bilevel switching.  |          |          |   |
| 504.3.3 Software clients. The software clients will be capable of communicating with a DR Automation Server.  |          |          |   |
| 504.4 Commissioning. Building commissioning for all building systems covered by T24. Part 6, process systems, and renewable energy systems shall be included in the design and construction processes of the building project. Commissioning requirements shall include as a minimum items listed in 504.4.  504.4.1 Owner's Project Regulrements |          |          | Certification of each step in the commissioning process shall be by personnel trained in commissioning by a nationally recognized organization. |
| OPR). Documented before the design phase of the project begins the OPR shall include items listed in 504.4.1.   |          |          |   |
| 504.4.2 Basis of Design (BOD). A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project and updated periodically to cover the systems listed in 504.4.2.  |          |          |   |
| 504.4.3 Commissioning plan. A commissioning plan describing how the project will be commissioned shall be started during the design phase of the building project and shall include as a minimum items listed in 504.4.3.   |          | П        |   |
| shall demonstrate the correct installation and operation of each component, system, and system-to-system interface in accordance with the approved plans and specifications.  504.4.5 Post construction documentation and training. A Systems Manual and  |          |          |   |
| Systems Operations Training are required.  504.4.5.1 Systems manual. The Systems Manual shall be delivered to the building owner and facilities operator and shall include the items listed in 504.4.5.1.   |          |          |   |
| 504.4.5.2 Systems operations training. The training of the appropriate maintenance staff for each equipment type and/or system shall include as a minimum items listed in 504.4.5.2.  |          |          |   |
| 504.4.6 Commissioning report. A complete report of commissioning process activities undertaken through the design, construction and post-construction phases of the building project shall be completed and provided to the owner.  |          |          |   |

| CDEEN BUILDING MEAGUE   | T        | <del></del> | REQUIRED 3RD PARTY |
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| GREEN BUILDING MEASURE  | REQUIRED | OPTIONAL    | VERIFICATION       |
| 504.5 Building orientation and shading. Locate, orient and shade the building as follows:  1. Long sides facing north and south 2. Exterior shade for south-facing windows during peak cooling season   |          |             |                    |
| Vertical shading for east-facing windows     Vertical shading for west-facing windows     Protect the building from thermal loss, drafts, and degradation of the building envelope caused by wind and wind-driven   |          |             |                    |
| materials. RENEWABLE ENERGY   | <u> </u> |             |                    |
| (511)   |          |             |                    |
| 511.1 On-site renewable energy. Use on-site renewable energy for at least 1% of the electrical service overcurrent protection device rating calculated in accordance with the 2007 California Electrical Code, or 1KW, whichever is greater, in addition to the electrical demand required to meet 1% of natural gas and propane use calculated in accordance with the 2007 California Plumbing Code. |          |             |                    |
| 511.1.1 Documentation. Calculate renewable on-site system to meet the requirements of Section 511.1. Factor in netmetering, if offered by local utility, on an annual basis.  |          |             |                    |
| 511.2 Green Power. Participate in the local utility's renewable energy portfolio program that provides a minimum of 50% electrical power from renewable sources. Maintain documentation through utility billings.   |          |             |                    |
| ELEVATORS, ESCALATORS, AND OTHER EQUIPMENT (512) 512.1 Elevators and escalators. In buildings   |          |             |                    |
| with more than one elevator or two escalators, provide controls to reduce the energy demand of elevators and reduce the speed of escalators.  Document the controls in the project specifications and commissioning plan.   |          |             |                    |
| 512.1.1 Controls. Controls that reduce energy demand shall meet requirements of CCR. Title 8. Chapter 4. Subchapter 6 and shall not interrupt emergency operations for elevators required in CCR. T24, Part 2.  |          |             |                    |
| ENERGY EFFICIENT STEEL FRAMING (513)  |          |             |                    |
| 513.1 Steel framing. Design for and employ techniques to avoid thermal bridging.  |          |             |                    |
| WATER EFFICIENCY AND CONSERVATION INDOOR WATER USE  |          |             |                    |
| (603)   |          |             |                    |
| 603.1 Meters. Separate meters or submeters shall be installed for indoor and outdoor potable water use.   |          |             |                    |
| 603.2 20% Savings. A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 20% shall be provided.  (Calculate savings by Water Use Worksheets.) 603.3 Appliances.   |          |             |                    |
| AAA'A Whilialices'  |          |             |                    |

| GREEN BUILDING MEASURE   | REQUIRED         | OPTIONAL     | REQUIRED 3RD PARTY |
|--|------------------|--------------|--------------------|
| 1. Clothes washers shall have a maximum  |                  | <del> </del> | VERIFICATION       |
| Water Factor (WF) that will reduce the use of water.   |                  | -            | 1                  |
| 2. Dishwashers shall meet the criteria in  | ł                | 1 -          | İ                  |
| 603.3(2)(a) and (b).   |                  |              |                    |
| 3. Ice makers shall be air cooled.     4. Food steamers shall be connection-less or                | i                |              | 1                  |
| boiler-less.   |                  |              |                    |
| 5. The use and installation of water softeners   |                  |              |                    |
| shall be limited or prohibited by local agencies.  |                  |              | Ì                  |
| 603,4 Wastewater reduction. Each building  |                  | <u> </u>     |                    |
| shall reduce the generation of wastewater by   |                  |              |                    |
| one of the following methods:  1. The installation of water-conserving fixtures                    |                  | П            |                    |
| or using non-potable water systems.  |                  |              |                    |
| 2. Treat wastewater on-site to tertiary  |                  |              |                    |
| standards.  603.5 Dual plumbing. New buildings and   |                  |              |                    |
| facilities shall be dual plumbed for potable and   |                  |              |                    |
| recycled water systems   |                  |              |                    |
| OUTDOOR WATER USE  |                  |              |                    |
| 604.1 Water budget. A water budget shall be  |                  |              | ļ                  |
| developed for landscape irrigation use.  | П                |              |                    |
| 604.2 Potable water reduction. Provide water   |                  |              |                    |
| efficient landscape irrigation design that   |                  |              |                    |
| reduces by 50% the use of potable water.   |                  |              | İ                  |
| Methods used to accomplish the requirements  |                  |              |                    |
| of this section shall include, but not be limited to, the items listed in 604.2.                   |                  |              | 1                  |
| 604.3 Potable water elimination. Provide a   |                  | -            |                    |
| water efficient landscape irrigation design that   |                  |              |                    |
| eliminates the use of potable water beyond the initial requirements for plant installation and     |                  | П            |                    |
| establishment.   |                  | Ц            |                    |
| Methods used to accomplish the requirements  |                  |              |                    |
| of this section shall include, but not be limited to, the items listed in 604.3.                   |                  |              |                    |
| 604.4 Graywater irrigation system. Install   | <del>- `  </del> |              |                    |
| graywater collection system for onsite   |                  |              |                    |
| subsurface irrigation using graywater. 604.5 Rainwater or stormwater collection                    |                  |              |                    |
| systems, Constructed water collection devices  | ļ                |              |                    |
| may store water for landscape irrigation.  |                  |              |                    |
| MATERIAL CONSERVATION AND RESOURCE EFFICIENCY  |                  |              |                    |
| EFFICIENT FRAMING SYSTEMS  |                  |              |                    |
| (704)  |                  |              |                    |
| 704.1 Wood framing. Employ advanced wood framing techniques, or OVE, as permitted by the           | ſ                |              |                    |
| enforcing agency.  | 1                | - U          |                    |
| MATERIAL SOURCES   |                  |              |                    |
| (705) 705.1 Regional materials. Select building  |                  |              |                    |
| materials or products for permanent installation   |                  | l            |                    |
| on the project that have been harvested or   | ļ                |              |                    |
| manufactured in California or within 500 miles of the project site, meeting the criteria listed in |                  |              |                    |
| <u>705.1.</u>  |                  |              |                    |
| 705.2 Blo-based materials. Select bio-based  |                  |              |                    |

| GREEN BUILDING MEAGURE   | -        | T        | REQUIRED 3RD PARTY   |
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| GREEN BUILDING MEASURE   | REQUIRED | OPTIONAL | VERIFICATION   |
| building materials per Section 705.2.1 or 705.2.2.   |          |          |  |
| 705.2.1 Certified wood products. Employ wood-based materials and products comprising at least 50% of a major building component, which are certified in accordance with one of the standards organizations listed in Items (1) through (5) in 705.2.1. |          |          | Forest management certification for forests and/or chain of custody certification for mills, manufacturers, and distributors specified by forest standards organization. |
| 705.2.2 Rapidly renewable materials. Use materials made from plants harvested within a ten-year cycle for at least 2.5% of total materials value, based on estimated cost.   |          |          |  |
| 705.3 Reused materials. Use salvaged. refurbished, refinished, or reused materials for at least 5% of the total value, based on estimated cost of materials on the project.  |          |          |  |
| 705.4 Recycled content. Use materials, equivalent in performance to virgin materials, with post-consumer or pre-consumer recycled content value (RCV) equaling at least 10% of the total value, based on estimated cost of materials on the project.   |          |          |  |
| 705.5 Cement and concrete. Use cement and concrete made with recycled products complying with Sections 705.5.1 through 705.5.3.  |          |          |  |
| 705.5.1 Alternate fuels Where permitted. use high-energy waste materials in the cement kiln.   |          |          |  |
| 705.5.2 Cement. Meet ASTM standards for<br>Portland cement or blended cement. 705.5.3 Concrete. Use concrete per   |          |          |  |
| 706.5.3.1 and/or 706.5.3.2.  705.5.3.1 Industrial byproducts. Use industrial byproducts in the concrete.   |          |          |  |
| 705.5.3.2 Recycled aggregates. Use recycled aggregates in the mix.  ENHANCE DURABILITY AND REDUCED   |          |          |  |
| MAINTENANCE (706)  706.1.1 Service life. Select materials for  |          |          |  |
| longevity and minimal deterioration under<br>conditions of use.  |          |          |  |
| 706.1.2 Reduced maintenance. Select materials that require little, if any, finishing. 706.1.3 Recyclability. Select materials that   |          |          |  |
| can be re-used or recycled at the end of their service life.  WEATHER RESISTANCE AND MOISTURE  |          |          |  |
| MANAGEMENT<br>(707)  |          |          |  |
| 707.1 Weather protection. Provide a weather-<br>resistant exterior wall and foundation envelope<br>as required by T24. Part 2. Section 1403.2 and<br>Part 6. Section 150. manufacturer's installation<br>instructions, or local ordinance.             |          |          |  |
| 707.2 Moisture control. Employ moisture control measures by one of the following methods:  |          |          |  |
| 707.2.1 Sprinklers. Prevent irrigation spray on structures.  |          |          |  |

|  |          | <del>,</del>    |   |
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| GREEN BUILDING MEASURE   | REQUIRED | <u>OPTIONAL</u> | REQUIRED 3 <sup>RD</sup> PARTY VERIFICATION |
| 707.2.2 Entries and openings. Design   |          | 1               | TERRITOR                                    |
| exterior entries and openings to prevent water   |          |                 |   |
| intrusion into buildings.  | <u> </u> |                 |   |
| CONSTRUCTION WASTE REDUCTION,<br>DISPOSAL AND RECYCLING  |          |                 |   |
| (708)  |          | 1               |   |
| 708.1 Construction waste diversion.  |          | <del></del>     |   |
| Establish a construction waste management  |          |                 |   |
| plan or meet local ordinance, whichever is more  |          | l LJ            |   |
| stringent.   |          |                 |   |
| 708.2 Construction waste management plan.  | _        |                 |   |
| Submit plan per this section to enforcement  |          |                 |   |
| authority.   |          |                 |   |
| 708.3 Construction waste. Recycle and/or   |          | ·               |   |
| salvage for reuse a minimum of 50% of non-   |          |                 | ]   |
| hazardous construction and demolition debris or  |          |                 | •   |
| meet local ordinance, whichever is more  |          |                 | i l   |
| stringent. Exceptions:   |          |                 |   |
| 1. Excavated soil and land-clearing  |          |                 |   |
| debris.  |          |                 | ĺ   |
| 2. Alternate waste reduction methods   |          | l               |   |
| developed by working with local  |          |                 |   |
| agencies if diversion or recycle   |          |                 |   |
| facilities capable of compliance with  |          |                 | l i   |
| this item do not exist.  |          |                 | ļ   |
| 708.4 Excavated soil and land clearing   |          |                 |   |
| debris, 100% of trees, stumps, rocks and   |          |                 |   |
| associated vegetation and soils resulting  |          |                 |   |
| primarily from land clearing shall be reused or recycled.  |          |                 |   |
| LIFE CYCLE ASSESSMENT  |          |                 |   |
| (709)  |          |                 |   |
| 709.1 Materials and system assemblies.   |          |                 |   |
| Select materials assemblies based on life cycle  | ľ        |                 |   |
| assessment of their embodied energy and/or   |          |                 |   |
| green house gas emission potentials. See   | i        |                 | 1   |
| 709.1.1 and 709.1.2 for available tools.   |          |                 |   |
| BUILDING MAINTENANCE AND OPERATION (709)   |          |                 |   |
| 710.1 Recycling by occupants. Provide  |          |                 |   |
| readily accessible areas that serve the entire   |          |                 |   |
| building and are identified for the depositing   |          |                 |   |
| storage, and collection of non-hazardous   |          |                 |   |
| materials for recycling.   |          |                 | ſ   |
| ENVIRONMENTAL QUALITY  |          |                 |   |
| FIREPLACES (803)   |          |                 |   |
| 803,1 Install only a direct-vent sealed-   |          |                 |   |
| combustion gas or sealed wood-burning  |          | 1               |   |
| fireplace. or a sealed woodstove, and refer to   | · ·      |                 |   |
| residential requirements in the California Energy  |          |                 |   |
| Code, Title 24, Part 6, Subchapter 7, Section  | i        | 1               |   |
| <u>150.</u>  |          |                 | ĺ   |
| POLLUTANT CONTROL  |          |                 |   |
| (804)  |          |                 |   |
| 804.1 Indoor air quality (IAQ) during  |          |                 |   |
| construction, Maintain IAQ as provided in Sections 804.1.1 and 804.1.2.  | ĺ        |                 |   |
|  | 1        | 1               |   |
| 804.1.2 Temporary ventilation, Provide temporary ventilation during construction in  |          | ì               |   |
| accordance with Section 121 of the California  | ļ        | ļ               | 1   |
| Energy Code, CCR, Title 24, Part 6, and  | 1        | 0 1             | 1   |
| The state of the s |          |                 |   |

| GREEN BUILDING MEASURE   | REQUIRED | OPTIONAL | REQUIRED 3RD PARTY |
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| Chapter 4 of CCR, Title 8, and as listed in  |          | <u> </u> | VERIFICATION       |
| Items 1 through 4 in 804.1.2.  | İ        |          |                    |
| 804.1.3 Additional IAQ measures. Employ  |          |          |                    |
| additional measures as listed in Items 1   |          |          |                    |
| through 5 in 804.1.3:  |          | 1 -      | 1                  |
| 804,2 IAQ post-construction. Flush out the   |          |          |                    |
| building per Section 804.2.1 prior to occupancy  | l        |          |                    |
| or if the building is occupied.  | <u> </u> |          |                    |
| 804.4 Finish material pollutant control.   |          |          |                    |
| Finish materials shall comply with Sections<br>804.1.1 through 804.1.4.  | 1        |          |                    |
| 804.4.1 Adhesives. Adhesives used on the   | 1        | ļ        |                    |
| project shall meet the requirements of the   |          |          |                    |
| following standards.   | }        | ļ        |                    |
| 1. Adhesives, adhesive bonding primers,  | İ        |          |                    |
| and adhesive primers shall comply with   |          |          |                    |
| Table 804.4.1.   |          | l        |                    |
| 2. Aerosol adhesives shall meet the  |          | 1        |                    |
| requirements of California Code of   |          |          | 1                  |
| Regulations, Title 17, commencing with   |          | 0        | 1                  |
| Section 94507  |          |          |                    |
| 804.4.2 Paints and coatings. Architectural   |          | }        |                    |
| paints and coatings shall comply with Table  |          |          | i                  |
| 804.4.2.   |          |          |                    |
| 804.4.3 Carpet systems. All carpet installed   |          |          |                    |
| in the building interior shall meet the testing  |          | -        |                    |
| and product requirements of one of the   |          |          |                    |
| programs listed in Items 1 through 4 in 804.4.3.   |          |          |                    |
| <del></del>  |          |          |                    |
| 804.4.3.1 Carpet cushion. All carpet cushion installed in the building interior  |          |          |                    |
| shall meet the requirements of the Carpet  |          |          |                    |
| and Rug Institute Green Label program.   |          |          |                    |
|  |          |          |                    |
| 804.4.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of  |          |          |                    |
| Table 804.4.1.   |          |          |                    |
| 804.4.4 Composite wood products.   |          |          |                    |
| Hardwood plywood, particleboard, and   |          |          | i                  |
| medium density fiberboard composite wood   | 1        | 1        | Į                  |
| products used on the interior or exterior of the   |          |          |                    |
| building shall meet the requirements for   | 1        | 1        |                    |
| formaldehyde as specified in Table 804.4.  | İ        |          |                    |
| 804.4.4.1 Early compliance. Where  | 1        |          |                    |
| complying product is readily available for   |          |          |                    |
| non-residential occupancies, meet Phase 2  |          |          | ]                  |
| requirements before the compliance dates   |          |          |                    |
| indicated in Table 804.4.  | i        |          |                    |
| 804.4.4.4 Documentation, Verification of   |          |          | 1                  |
| compliance with this section shall be  |          | 1        | l.                 |
| provided as requested by the enforcing   |          |          | _                  |
| agency. Documentation shall include at   | - 1      |          |                    |
| least one of the following.  | j        | ļ        | i                  |
| 1. Product certifications and  | 1        | ĺ        |                    |
| specifications.  |          |          |                    |
| 2. Chain of custody certifications.  |          | Ī        | П                  |
| 3. Other methods acceptable to the enforcing agency.   |          | l        | m (                |
| 804.4.5 Resilient flooring systems. Comply   |          |          |                    |
| with the VOC-emission limits defined in the  | 1        |          | 1                  |
| The state of the s |          |          |                    |

| GREEN BUILDING MEASURE   | REQUIRED | OOTIONAL | REQUIRED 3RD PARTY |
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| CHPS Low-emitting Materials List.  | KEQUIKED | OPTIONAL | VERIFICATION       |
| 804.4.6 Thermal Insulation. Comply with Chapter 12-13 in Title 24. Part 12 and with the VOC-emission limits defined in CHPS Low-emitting Materials List.   |          |          |                    |
| 804.4.7 Acoustical cellings and wall panels. Comply with Chapter 8 in Title 24. Part 2 and with the VOC-emission limits defined in the CHPS Low-emitting Materials List  |          |          |                    |
| 804.5 Hazardous particulates and chemical pollutants. Minimize and control pollutant entry into buildings and cross-contamination of regularly occupied areas.   |          |          |                    |
| 804.5.1 Entryway systems. Install permanent entryway systems measuring at least six feet in the primary direction of travel to capture dirt and particulates at entryways directly connected to the outdoors as listed in Items 1 through 3 in 804.5.1.  |          |          |                    |
| 804.5.2 Isolation of pollutant sources. In rooms where activities produce hazardous fumes or chemicals, exhaust them and isolate them from their adjacent rooms as listed in Items 1 through 3 in 804.5.2.   |          |          |                    |
| 804.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air prior to occupancy that provides at least a MERV of 13.   |          |          |                    |
| 804.6 Ozone depletion and global warming reductions. Installations of HVAC. refrigeration, and fire suppression equipment shall comply with Sections 804.3.1, and optionally Section 804.3.2.  804.6.1 CFCs. Install HVAC, refrigeration   |          |          |                    |
| and fire suppression equipment that do not contain CFCs.  804.6.2 HCFCs and Halons. Install HVAC. refrigeration and fire suppression equipment that do not contain HCFCs or Halons.  |          | П        |                    |
| 804.7 Environmental tobacco smoke (ETS) control. Prohibit smoking within25 feet of building entries, outdoor air intakes and operable windows and in buildings by either Section 804.4.1 or 804.4.2; or as enforced by local ordinances, regulations, or policies, whichever are more stringent. |          |          |                    |
| INDOOR MOISTURE AND RADON CONTROL<br>(805)   |          |          |                    |
| 805.1 Indoor moisture control. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2. Sections 1203 and Chapter 14.   |          |          |                    |
| AIR QUALITY AND EXHAUST<br>(806)   |          |          |                    |
| he minimum requirements of Section 121 of the California Energy Code. CCR, Title 24. Part 6 and Chapter 4 of CCR. Title 8, or the applicable   |          |          |                    |

| GREEN BUILDING MEASURE  | DECHIDED     | OPTIONAL        | REQUIRED 3RD PARTY |
|---|--------------|-----------------|--------------------|
|   | REQUIRED     | <u>OPTIONAL</u> | VERIFICATION       |
| local code, whichever is more stringent.  806,2 Carbon dloxide (CO <sub>2</sub> ) monitoring.   | <del> </del> | <del> </del>    |                    |
| Install permanent CO2 monitoring equipment  |              |                 |                    |
| that permits adjustment of ventilation system   |              | 1               | 4                  |
| controls and set points and meets the latest  |              | _               |                    |
| edition of the California Energy Code requirements.   |              |                 |                    |
| Exception: In buildings without energy  | 1            | ľ               |                    |
| management systems, monitoring equipment  |              |                 |                    |
| shall trigger alarms to alert facilities operators  |              |                 |                    |
| or occupants of ventilation deficiencies.  ENVIRONMENTAL COMFORT                                |              |                 |                    |
| (807)   |              |                 |                    |
| 807.1 Lighting and thermal comfort controls.  |              | <del> </del>    | <del> </del>       |
| Provide controls in the workplace as described  |              |                 |                    |
| in Sections 807.1.1 and 807.1.2.  |              |                 | 1                  |
| 807.1.1 Single-occupant spaces. Provide   |              | 1               |                    |
| individual controls that meet energy use requirements in the 2007 California Energy             |              |                 |                    |
| Code by Sections 807.1.1.1 and 807.1.1.2.   |              | -               |                    |
| 807.1.1.1 Lighting. Provide individual task   |              |                 |                    |
| lighting and/or daylighting controls for at   |              |                 |                    |
| least 90% of the building occupants.  |              |                 |                    |
| 807.1.1.2 Thermal comfort. Provide  |              |                 | 1                  |
| individual thermal comfort controls for at<br>least 50% of the building occupants by            |              | _               |                    |
| Items 1 and 2 in 807.1.1.2.   |              |                 |                    |
| 807.1.2 Multi-occupant spaces. Provide  |              |                 |                    |
| lighting and thermal comfort system controls  |              |                 |                    |
| for all shared multi-occupant spaces. 807.2 Verification of Indoor environmental                |              |                 |                    |
| quality. Within a period of six to 18 months  |              |                 |                    |
| after occupancy, conduct an indoor  |              |                 |                    |
| environmental survey of building occupants.   |              |                 |                    |
| Collect voluntary anonymous responses     about indoor environmental quality, including         |              |                 | į –                |
| thermal comfort, air quality, lighting.   |              |                 | ļ                  |
| acoustics, daylighting, and operable windows.   |              | IJ              |                    |
| Take corrective action if the survey results indicate that more than 20% of surveyed            |              |                 | 1                  |
| occupants are dissatisfied with thermal   |              |                 |                    |
| comfort, or if more than 5% complain of odor  | ì            |                 |                    |
| irritation, fatigue, nausea, and respiratory  | ļ            |                 |                    |
| problems arising from the workplace.  807.3 Daylight. Provide daylit spaces as                  |              |                 |                    |
| required for toplighting and sidelighting in the  |              |                 |                    |
| 2007 California Energy Code. In constructing a  | i            |                 | İ                  |
| design, consider Items 1 through 4 in 807.3.  |              |                 |                    |
| 807.4 Views. Achieve direct line of sight to the outdoor environment via vision glazing between |              |                 |                    |
| 2'6" and 7'6" above finish floor for building   | 1            |                 |                    |
| occupants in 90% of all regularly occupied  | j            |                 | J                  |
| areas.  | 1            | ĺ               |                    |
| 807.4.1 Interior office spaces. Entire areas  |              |                 |                    |
| of interior office spaces may be included in<br>the calculation if at least 75% of each area    | ĺ            |                 | İ                  |
| has direct line of sight to perimeter vision  | ļ            | İ               | ļ                  |
| glazing.  |              | ļ               |                    |
| 807.4.2 Multi-occupant spaces. Include in   |              | 1               | 1                  |
| the calculation the square footage with direct line of sight to perimeter vision glazing.       | ľ            |                 |                    |
| and or sight to perinnetel vision diazing.  |              |                 |                    |

| GREEN BUILDING MEASURE   | REQUIRED | OPTIONAL. | REQUIRED 3 <sup>RD</sup> PARTY VERIFICATION |
|--|----------|-----------|---|
| 807.5 Acoustical control. Employ building assemblies and components with STC values determined in accordance with ASTM E90 and ASTM E413.  |          |           |   |
| 807.5.1 Exterior noise transmission. Wall and floor-ceiling assemblies making up the building envelope shall have an STC of at least 50, and exterior windows shall have a minimum STC of 30 for any of the building locations listed in Items 1 through 3 in 807.5.1. |          |           |   |
| 807.5.2 Interior sound. Wall and floor-<br>ceiling assemblies separating tenant spaces<br>and tenant spaces and public places shall<br>have an STC of at least 50.   |          |           |   |
|  |          |           |   |

# APPLICATION CHECKLIST (AC-HCD)

| newties residential buildings shall make to exceed the minimum standard design required by the California Energy Standards currently, in effect.  Prescriptive Approach, (504)  504.6 Minimum requirements, low-lise residential buildings shall make to exceed the minimum standard design required by the California Energy Standards currently, in effect.  MR SEALING PACKAGE 506.  306.1 Joints and openings, loints and other upenings of the colors and other upenings of the colors and other upenings of the colors and other upenings of the colors and other upenings of the colors and other upenings of the colors and other upenings of the colors and unconditioned space and between actic and underfloor access and unconditioned space and between actic and underfloor access and conditioned space and between actic and underfloor access and conditioned space and between actic and underfloor access and conditioned space and between actic and underfloor access and extreme and all siding materials. 2. Openings for plumbing, ejectical and gas lines in exterior walls and interior wall ceilings and floors. 3. Openings into the attic. 1. Exhaust duets from clubes divers and other exhaust fans shall have a damper, 5. Outs or notches in exterior wall plates.  506.1.1 Other openings. And the openings of the colors of the col | GREEN BUILDING MEASURE  | REQUIRED              | <u>OPTIONAL</u> | REQUIRED 3 <sup>RD</sup> PARTY VERIFICATION |
|--|---|-----------------------|-----------------|---|
| ## Site Development ## 406.2 A plan is developed and implemented to manage storm years of annace during construction.  ## 2016 CBC   ## 2016 C | DI AMMING AND DEGICAL   |                       |                 |   |
| 406,2 A Data is developed and implemented to manage storm water dramage during construction.  ENERGY EFFCIENCY Performance Approach.  503.2 fillnimum requirements. 2010 CBC.  Sourcests residential buildings shall mest to exceed the minimum standard design required by the California Energy Standards concretul, an effect.  Prescriptive Approach.  504.6 fillnimum requirements. 2010 CBC.  Sourcests residential buildings shall mest to exceed the minimum standard design regulated by the California Energy Standards currents. In effect.  AIR SEALING PACKAGE  505.1 Joints and openings. 50fts and other usenings at the dilevant locations. 1 Extension into saround unique and door frames, inclusion doors behaves the housest garage, between the housest garage, between the housest garage, between the housest garage, between the housest garage, between site and underlioor accesses and conditioned space and between and sole plates, floors eventor panels and all siding materials. 2010 CBC.  20 |   | <del> </del>          | <u> </u>        |   |
| implemented to manage storm water drainage during construction.  ENERGY EFFICIENCY Performance Approach. (903)  503.2 fillnimum requirements, coverise residential buildings shall meet to exceed the minimum standard desion required by the California Energy Standards currentin in effect.  Prescriptive Approach. (904)  Sod.4. Minimum requirements, coverise regidential buildings shall meet of exceed the minimum standard desion required by the California Energy Standards currentin in effect.  AIR SEALING PACKAGE  506.1 Joints and openings, comes and other commiss at the polycomic locations.  I. Exterior ionts around unique. and door frames including doors between the note.  Sod. standards and openings, closets and unconditioned space between the sid and underfloor access and conditioned space and between radii sole plates, floors, exterior panels and all siding materials and sole plates, floors, exterior panels and all siding materials and interior valls captings and floors; 3. Openings for obunithing electrical and cap slines in exterior valls and interior vall capillines and floors; 3. Openings into the shall, 4. Exhaust ducts from clodes divers and other exhaust fans shall have a damager. Sode, 1. Other openings. Sode, 1. Other openings.  |   | 1                     | į               |   |
| Performance Approach, (503)  503.2 Illinimum requirements. Low-lise residential buildings shall meet or, exceed the minimum standard design required by the California Energy Standards currently, in effect.  Prescriptive Approach, (504)  504.6 Minimum requirements, low-lise residential buildings shall meet or exceed the minimum standard design required by the California Energy Standards currently, in effect.  AIR SEALING PACKAGE 506.1 Joints and openings, loints and other ypenings at the color of the color o | implemented to manage storm water drainage during   | 2010 CBC <sup>1</sup> |                 |   |
| Performance Approach, (503)  503.2 Illinimum requirements. Low-lise residential buildings shall meet or, exceed the minimum standard design required by the California Energy Standards currently, in effect.  Prescriptive Approach, (504)  504.6 Minimum requirements, low-lise residential buildings shall meet or exceed the minimum standard design required by the California Energy Standards currently, in effect.  AIR SEALING PACKAGE 506.1 Joints and openings, loints and other ypenings at the color of the color o | ENERGY EFFICIENCY   | <del> </del>          | <del> </del> -  |   |
| 503.2 Ultimum requirements.  Low-rise residential buildings shall meet or seceed the minimum standard design required by the California Energy Standards currenty in effect.  Prescriptive Approach.  (504.6 Minimum requirements, Low-rise residential buildings shall meet or exceed the minimum standard design required by the California Energy Standards currenty in effect.  MR SEALING PACKAGE  506.1 Joints and openings, loints and other openings at the collections.  1. Extendr foints around Amdor, and door frames including doors between the houseon, garage between interior High constitution of plumbing, electrical and use lines in extenor valls and interior well ceilings and loss in force; a. Despenses into the ante. 1. Exhaust dusts from clothes divers and other shalls flores and lose in the same. 2010 CBC  2010 CBC  2010 CBC  |   | <del> </del>          |                 |   |
| newties residential buildings shall make to exceed the minimum standard design required by the California Energy Standards currently, in effect.  Prescriptive Approach, (504)  504.6 Minimum requirements, low-lise residential buildings shall make to exceed the minimum standard design required by the California Energy Standards currently, in effect.  MR SEALING PACKAGE 506.  306.1 Joints and openings, loints and other upenings of the colors and other upenings of the colors and other upenings of the colors and other upenings of the colors and other upenings of the colors and other upenings of the colors and other upenings of the colors and unconditioned space and between actic and underfloor access and unconditioned space and between actic and underfloor access and conditioned space and between actic and underfloor access and conditioned space and between actic and underfloor access and conditioned space and between actic and underfloor access and extreme and all siding materials. 2. Openings for plumbing, ejectical and gas lines in exterior walls and interior wall ceilings and floors. 3. Openings into the attic. 1. Exhaust duets from clubes divers and other exhaust fans shall have a damper, 5. Outs or notches in exterior wall plates.  506.1.1 Other openings. And the openings of the colors of the col |   |                       | <u></u>         |   |
| 504.6 Minimum requirements. Low-lise residential buildings shall meet or exceed the minimum standard design required by the California Energy Standards authents in effect.  AIR SEALING PACKAGE  506.1 Joints and openings, loints and other openings at the official openings at the official openings at the official openings at the official openings at the official openings at the official openings at the official openings at the official openings at the official openings at the official openings at the official openings at the official openings at the official openings openings at the official openings opening at the official openings opening at the opening opening opening at the opening o | 503.2 Minimum requirements. Low-rise residential buildings shall meet or exceed the minimum standard design required by the California Energy Standards currently in effect.  | 2010 CBC              |                 |   |
| meet or exceed the minimum standard design required by the California Energy Standards coursent, in effect.  AIR SEALING PACKAGE  506.1 Joints and openings. Joints and other openings at the office of the conditioned shade and door frames, including doors between the housest and door frames, including doors between the housest agarde, between interior Ph.A. closets and unconditioned space between attic and underfloor access and conditioned space and between wall sole plates, floors, extenor panels and all stiding materials. 2. Openings for plumbing, electrical and gas lines in extenor, walls and interior wall ceilings and floors. 3. Openings into the attic. 4. Exhaust ducts from clothes dryers and other exhaust fans shall have a damper. 5. Cuts or notches in eviterior, wall plates.  506.1.1 Other openings. Shole house, fan louvers shall.   | Prescriptive Approach.<br>(504)   |                       |                 |   |
| 506.1 Joints and openings. Joints and other openings at the officerior ioints around lando and door frames, including doors between the houseart.  darage, between attic and underfloor access and unconditioned space, between attic and underfloor access and conditioned space and between wall sole plates, floors, extenor panels and all siding materials.  2010 CBC  2010 CBC  2010 CBC  2010 CBC   | 504.6 Minimum requirements. Low-rise residential buildings shall meet or exceed the minimum standard design required by the California Energy Standards currently in effect.  | <u>2010 580</u>       |                 |   |
| doints and other openings at the following locations:  1. Exterior ioints around window and door frames, including doors between the houseal darage, between interior Ht. A. closets and unconditioned space, between attic and underfloor access and conditioned space and between wall sole plates, floors, extenor panels and all siding materials.  2. Openings for plumbing, electrical and gas lines in exterior, walls and interior wall, ceilings and floors.  3. Openings into the attic.  4. Exhaust ducts from clothes divers and other exhaust fans shall have a damper, shall have a damper, shall have a damper, shall have a fan louvers shall.  506.1.1 Other openings.  Nocle house fan louvers shall.  | AIR SEALING PACKAGE<br>(506)  |                       | <del></del>     |   |
| <u>.√nole house fan lou</u> vers sha⊪  | and door frames, including doors between the housear garage, between interior HNA, closets and unconditioned space, between attic and underfloor access and conditioned space and between wall sole plates, floors, exterior panels and all siding materials.  2. Openings for plumbing, electrical and gas lines in exterior walls and interior wall, ceilings and floors.  3. Openings into the attic.  4. Exhaust ducts from clothes dryers and other exhaust fans shall have a damper.  5. Cuts or notches in exterior wall plates. | 2010 CBC              |                 |   |
| Close tighting and he incurred   | 506.1.1 Other openings.   |                       |                 |   |
| UNITED HOUSE, AND NA INCHISTANT  | close tighting and be insulated   |                       |                 | ,   |

| to the same of the constitution of  | 1                 | <br> |   |  |
|---|-------------------|------|---|--|
| or covered to a minimum of R-4.2.   |                   |      |   |  |
| WATER EFFICIENCY AND CONSERVATION   |                   |      |   |  |
| Indoor Water Use<br>(603)   |                   |      |   |  |
| 603.2 Indoor water use shall be reduced by 20% using one of the follow methods.  1. Water saving fixtures or flow restrictors shall be used.  2. A 20% reduction in baseline water use shall be demonstrated.   |                   |      |   |  |
| 603.2.1 Multiple showerheads shall not exceed maximum flo rates.  | <u>7/01/201 .</u> |      |   |  |
| MATERIAL CONSERVATION AND RESOURCE EFFICIENCY   |                   |      |   |  |
| Construction Waste Reduction, Disposal and Recycling (708)  |                   |      |   |  |
| 708A minimum of 50% of the construction waste generated at the site is diverted to recycle or salvage  Exception: Alternate waste reduction methods are developed by working with local agencies if diversion or recycle facilities inpublic of compliance with this item do not exist. | 291 <u>9 OB</u> 1 |      |   |  |
| Building Maintenance and Operation (710)  |                   |      |   |  |
| 710.2 An operation and maintenance manual shall be provided to the building equipant or owner.  | 2010 CBC          |      |   |  |
| INDOOR ENVIRONMENTAL QUALITY  |                   |      |   |  |
| Pollutant Control<br>(804)  |                   |      |   |  |
| 804.4.1 Adhesives shall be 140- or Low-VCC  | 2016 CBC          |      |   |  |
| 804.4.2 Paints, stains and other coatings shall be No- or Low-VOC   | <u> 2010 GBC</u>  |      | - |  |
| 804.4.3 Carpet and carpet systems shall be Low-VGC.   | 2910 CBC          |      |   |  |
| 804.4.4 Particlepoard, medium density fiberboard (MDF), and   | 2010 CBC          |      |   |  |

| abase and see all in intention exists  |                 |  |
|--|-----------------|--|
| plywood used in interior finish<br>systems shall comply with low<br>formaldehyde emission standards. |                 |  |
| Interior Moisture Control<br>(805)   |                 |  |
| 805.2 Vapor retarder and capillar: break is installed at slab on grade foundations.                  | 2010 CBC        |  |
| 805,3 Moisture content of wood used in wall and floor framing is checked before enclosure.           | 2010 CBC        |  |
| Air Quality and Exhaust (806)  |                 |  |
| 806.3 Exhaust fans which terminate outside the building are provided in every bathroom.              | 2010 CBC        |  |
| 806.4 MERV 6, or higher filters are installed on central air and heating systems.                    | <u>2010 OBC</u> |  |

Unless specified other visa, this measure shall become effective on the effective date of the 2015 California Building Code.

### **GREEN APPLICATION CHECKLIST (AC-OSHPD)**

| GREEN BUILDING MEASURE   | REQUIRED | OPTIONAL | REQUIRED 3 <sup>RD</sup> PARTY VERIFICATION |
|--|----------|----------|---|
| ENERGY EFFICIENCY  |          |          |   |
| PRESCRIPTIVE MEASURES (504)  |          |          |   |
| 504.1 ENERGY STAR equipment and appliances. All equipment and appliances provided by the builder shall be ENERGY STAR labeled if ENERGY STAR is applicable to that equipment or appliance  |          | 0        |   |
| 504.5 Building orientation and shading. Locate, orient and shade the building as follows:  1. Exterior shade for south-facing windows during peak cooling season 2. Vertical shading for east-facing windows 3. Vertical shading for west-facing windows |          |          |   |
| MATERIAL CONSERVATION AND RESOURCE EFFICIENCY  |          |          |   |
| CONSTRUCTION WASTE REDUCTION. DISPOSAL AND RECYCLING (708)   |          |          |   |
| 708.1 Construction waste diversion.  Establish a construction waste management plan or meet local ordinance, whichever is more stringent.  |          |          |   |
| 708.3 Construction waste. Recycle and/or salvage for reuse a minimum of 50% of non-hazardous construction and demolition debris.  Exceptions:  |          |          |   |
| 1. Excavated soil and land-clearing debris.     2. Alternate waste reduction methods     developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.                                  |          |          |   |
| 708.4 Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled.  |          |          |   |
| BUILDING MAINTENANCE AND OPERATION (709)   |          |          |   |
| 710.1 Recycling by occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing. storage, and collection of non-hazardous materials for recycling.   |          |          |   |
| ENVIRONMENTAL QUALITY POLLUTANT CONTROL  |          |          |   |
| (804)<br>804.4 Finish material pollutant control.  |          |          |   |
| Finish materials shall comply with Sections 804.1.1 through 804.1.4.   |          |          |   |
| 804,4.1 Adhesives. Adhesives used on the project shall meet the requirements of the following standards.   |          |          |   |
| Adhesives, adhesive bonding primers,<br>and adhesive primers shall comply with<br>Table 804.4.1.   |          |          |   |
| Aerosol adhesives shall meet the requirements of California Code of Regulations, Title 17, commencing with   |          |          |   |

| GREEN BUILDING MEASURE  | REQUIRED | OPTIONAL     | REQUIRED 3 <sup>RD</sup> PARTY VERIFICATION |
|---|----------|--------------|---|
| Section 94507   |          | <del> </del> |   |
| 804.4.2 Paints and coatings. Architectural paints and coatings shall comply with Table 804.4.2.   |          |              |   |
| 804.4.3 Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the programs listed in Items 1 through 4 in 804.4.3.  |          |              |   |
| 804.4.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.  |          |              |   |
| 804.4.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Section 804.4.1.  |          |              |   |
| 804.4.4 Composite wood products.  Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in Table 804.4.     |          |              |   |
| 804.4.4.1 Early compliance. Where complying product is readily available for non-residential occupancies, meet Phase 2 requirements before the compliance dates indicated in Table 804.4.   |          |              |   |
| 804.4.4.4 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following.  |          |              |   |
| Product certifications and specifications.  |          |              |   |
| 2. Chain of custody certifications.   |          | П            |   |
| 3. Other methods acceptable to the  |          |              |   |
| enforcing agency.  804,4.5 Resilient flooring systems. Comply   |          |              |   |
| with the VOC-emission limits defined in the CHPS Low-emitting Materials List.   |          |              |   |
| 804.4.6 Thermal Insulation. Comply with Chapter 12-13 in Title 24. Part 12 and with the VOC-emission limits defined in CHPS Low-emitting Materials List.  | ;        |              |   |
| 804.4.7 Acoustical cellings and wall panels, Comply with Chapter 8 in Title 24. Part 2 and with the VOC-emission limits defined in the CHPS Low-emitting Materials List   |          | <b>=</b>     |   |
| 804.5 Hazardous particulates and chemical pollutants. Minimize and control pollutant entry into buildings and cross-contamination of  |          | 7 11         |   |
| 804.5.1 Entryway systems. Install permanent entryway systems measuring at least six feet in the primary direction of travel to capture dirt and particulates at entryways directly connected to the outdoors as listed in Items 1 through 3 in 804.5.1. |          |              |   |

| GREEN BUILDING MEASURE   | REQUIRED | OPTIONAL | REQUIRED 3 <sup>RU</sup> PARTY VERIFICATION |
|--|----------|----------|---|
| 804.7 Environmental tobacco smoke (ETS) control. Prohibit smoking within25 feet of building entries, outdoor air intakes and operable windows and in buildings by either Section 804.4.1 or 804.4.2; or as enforced by local ordinances, regulations, or policies, whichever are more stringent. |          |          |   |
| INDOOR MOISTURE AND RADON CONTROL<br>(805)   |          |          |   |
| 805.1 Indoor moisture control. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1203 and Chapter 14.   |          | П        |   |
| ENVIRONMENTAL COMFORT (807)  |          |          |   |
| 807.5 Acoustical control. Employ building assemblies and components with STC values determined in accordance with ASTM E90 and ASTM E413.  |          | П        |   |
| 807.5.1 Exterior noise transmission. Wall and floor-ceiling assemblies making up the building envelope shall have an STC of at least 50, and exterior windows shall have a minimum STC of 30 for any of the building locations listed in Items 1 through 3 in 807.5.1.                           |          |          |   |
| 807.5.2 Interior sound. Wall and floor-<br>ceiling assemblies separating tenant spaces<br>and tenant spaces and public places shall<br>have an STC of at least 50.   |          |          |   |