# INITIAL EXPRESS TERMS FOR PROPOSED BUILDING STANDARDS OF THE CALIFORNIA BUILDING STANDARDS COMMISSION REGARDING THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE,

# CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART **11**

# **(CALGREEN)**

# (BSC 03/21)

The State agency shall draft the regulations in plain, straightforward language, avoiding technical terms as much as possible and using a coherent and easily readable style. The agency shall draft the regulation in plain English. A notation shall follow the express terms of each regulation listing the specific statutes authorizing the adoption and listing specific statutes being implemented, interpreted, or made specific (Government Code Section 11346.2(a)(1)).

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

**LEGEND for EXPRESS TERMS (California only codes - Parts 1, 6, 8, 11, 12)**

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* Repealed California language appears ~~upright and in strikeout~~.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

# INITIAL EXPRESS TERMS

The Building Standards Commission (BSC) proposes to amend the 2019 edition of the California Green Building Standards Code (CALGreen) as presented on the following pages, including any necessary amendments. BSC further proposes to:

**PROPOSED REPEALS, ADOPTIONS AND NEW AMENDMENTS**

# ITEM 1

**CHAPTER 2, DEFINITIONS**

**. . .**

**SECTION 202**

**DEFINITIONS**

**AUTOMATIC LOAD MANAGEMENT SYSTEM (ALMS)**. A system designed to manage load across one or more Electric Vehicle Grid Interface to share electrical capacity and/or automatically manage bidirectional power at each connection point and/or provide other grid services.

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference(s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 2

**EV CAPABLE SPACE-** Vehicle space with Electrical panel capacity and space to support a branch circuit and necessary raceways, both underground and/or surface mounted, to support future EV charging.

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference(s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 3

**~~LOW-EMITTING AND FUEL EFFICIENT VEHICLES.~~**

~~Eligible vehicles are limited to the following:~~

1. ~~Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under~~ *~~Health and Safety Code~~* ~~Section 43800 and CCR, Title 13, Sections 1961 and 1962.~~
2. ~~High-efficiency vehicles, regulated by U.S. EPA, bearing High-occupancy Vehicle (HOV) carpool lane stickers issued by the Department of Motor Vehicles.~~

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference – Health & Safety Code Sections 18930.5 and 18941.10

# ITEM 4

**NONWATER URINAL WITH DRAIN CLEANSING ACTION.** A nonwater urinal that conveys waste into the drainage system without the use of water for flushing and automatically performs a drain-cleansing action after a predetermined amount of time.

**~~URINAL, HYBRID~~**~~. A urinal that conveys waste into the drainage system without the use of water for flushing and automatically performs a drain‐cleansing action after a predetermined amount of time~~.

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference(s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 5

**OFF-STREET PARKING SPACES -** an area, other than a public street, public way, or other property (and exclusive of off-street parking spaces), permanently reserved or set aside for the loading or unloading of motor vehicles, including ways of ingress and egress and maneuvering areas. Whenever the term "loading space" is used, it shall, unless the context clearly requires otherwise, be construed as meaning off-street loading space. This excludes designated passenger loading/unloading.

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference(s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 6

~~VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 per- sons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purposes of ridesharing.~~

~~Note: Source: Vehicle Code, Division 1, Section 668.~~

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference – Health & Safety Code Sections 18930.5 and 18941.10

# ITEM 7

**DESIGNATED PARKING**

**SECTION 5.106, SITE DEVELOPMENT**

**. . .**

**~~5.106.5.2 Designated parking for clean air vehicles.~~** ~~In new projects~~ **~~. . .~~**~~as follows.~~

**~~TABLE 5.106.5.2~~**

| **~~TOTAL NUMBER OF PARKING SPACES~~** | **~~NUMBER OF~~**  **~~REQUIRED SPACES~~** |
| --- | --- |
| ~~0-9~~ | ~~0~~ |
| ~~10-25~~ | ~~3~~ |
| ~~26-50~~ | ~~6~~ |
| ~~51-75~~ | ~~9~~ |
| ~~76-100~~ | ~~12~~ |
| ~~101-150~~ | ~~18~~ |
| ~~151-200~~ | ~~21~~ |
| ~~201 and over~~ | ~~At least 12 percent~~~~of total~~~~1~~ |

~~1. Calculation for spaces shall be rounded up to the nearest whole number.~~

~~Note: Designated parking for clean air vehicles shall count toward the total parking spaces required by the local enforcing agencies.~~

**~~5.106.5.2.1 Parking stall marking.~~** ~~Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle:~~

~~CLEAN AIR/~~

~~VANPOOL/EV~~

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

**…**

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference(s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 8

**ELECTRIC VEHICLE INFRASTRUCTURE**

**SECTION 5.106, SITE DEVELOPMENT**

**. . .**

**5.106.5.3 Electric vehicle (EV) charging. [N]** Construction shall comply with Section5.106.5.3.1 and in accordance with regulations in the *California Building Code* and*,* the *California Electrical Code*. ~~or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE):~~ ~~When EVSE(s) is/are installed, it shall be~~ ~~in accordance with the~~ *~~California Building Code,~~* ~~the~~ *~~California Electrical Code~~* ~~and as follows:~~

**Exceptions:**

1**.** On a case-by-case basis where the local enforcing agency has determined ~~EV charging and infrastructure~~ compliance with this section is not feasible based upon one or more of the following conditions:

~~1~~a. Where there is insufficient electrical supply.

~~2~~b. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

2. Spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.

**~~5.106.5.3.1 Single charging space requirements. [~~**~~N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:~~

1. ~~The type and location of the EVSE.~~
2. ~~A listed raceway capable of accommodating a 208/240-volt dedicated branch circuit.~~
3. ~~The raceway shall not be less than trade size 1.”~~
4. ~~The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into a listed suitable cabinet, box, enclosure or equivalent.~~
5. ~~The service panel or subpanel shall have sufficient capacity to accommodate a minimum of 40- ampere dedicated branch circuit for the future installation of the EVSE.~~

**5.106.5.3.~~2~~ 1 ~~Multiple~~ ~~charging space requirements~~ EV Charging spaces (EV capable).**

**[N]** EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements: ~~[N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/~~ ~~are required to be installed at the time of construction and shall be installed in accordance with the~~ *~~California Electrical Code~~*~~. Construction plans and specifications shall include, but are not limited to, the following:~~

~~1.The type and location of the EVSE.~~

~~2~~ 1. ~~The~~ ~~r~~ Raceways ~~(s)~~ are required to be installed at the time of construction in accordance with the *California Electrical Code.* The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable space ~~the charging equipment~~ and into a listed suitable cabinet~~(s),~~ box~~(es),~~ enclosure~~(s)~~ or equivalent. A common raceway may be used to serve multiple EV capable spaces.

~~3~~ 2. Panel capacity at time of construction for each EV capable space shall be ~~Plan design shall be based upon~~ a 208/240 volts, 40-ampere minimum branch circuit~~s~~.

~~4~~ 3 ~~Electrical calculations shall substantiate the design of the electrical system, to include the rating of~~ The electrical system ~~equipment~~ and any on-site distribution transformers ~~and~~ shall have sufficient capacity to ~~simultaneously charge~~ supply ~~all required~~ ~~EVs~~ full rated amperage at each EV capable space. ~~its full rated amperage.~~

~~5~~ 4 The service panel or subpanel(s) shall have sufficient capacity to accommodate ~~the required number of~~ dedicated branch circuits ~~(s~~) to each EV capable space for the future installation of the EV charger ~~EVSE~~.

5.(formerly 5.106.5.3.4 [N] Identification) The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) ~~for future EV charging~~ as “EV CAPABLE”. The raceway termination location shall be permanently and visibly marked as “EV CAPABLE”.

Note: (Relocated from Section 5.106.5.3.5)EV capable spaces and spaces with EVSE installed shall count toward the total parking spaces required by the local ~~enforcing agencies~~ enforcement agency.

**5.106.5.3.2 EV charging spaces with Level 2 EVSE.**

EV capable charging spaces are required to be provided with Level 2 EVSE as indicated by Table 5.106.5.3.1. When Level 2 EVSE is installed beyond the minimum required by Table 5.106.5.3.1, the following is permitted.

1. ALMS may be used to reduce the maximum required load capacity to each EV capable space served by an ALMS-enabled charger. ALMS must be designed to deliver at least 3.3 kW simultaneously to each electric vehicle charging space (EVCS) served by the ALMS and must meet the requirements of *California Electrical Code*. ALMS shall not be used to reduce the minimum required load capacity to EV capable spaces without EVSE installed.
2. One Direct Current Fast Charger (DCFC) may be installed to substitute for the installation of five or fewer Level 2 EV chargers and reduce the load capacity for each EV capable space with a Level 2 EVSE for which the DCFC charger substitutes. The installed DCFC shall be rated at 50 kW minimum. A minimum of one Level 2 EV charger shall be installed.

**5.106.5.3.2.1 Accessible EVCS**. When EVSE is installed, accessible EVCS shall be provided in accordance with the *California Building Code Chapter 11B Section 11B-228.3.*

**5.106.5.3.2.2 EVCS signs.** Refer to the *California Vehicle Code* section 22511.

**~~5.106.5.3.3. Charging space calculation~~**~~. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future~~

~~installation of EVSE.~~

**Exceptions:** (Relocated to Section 5.106.5.3) On a case-by-case … conditions:

1. Where… supply.

2. Where… project.

**TABLE 5.106.5.3.~~3~~ 1**

| **TOTAL NUMBER OF**  **ACTUAL PARKING SPACES** | **NUMBER OF REQUIRED EV CAPABLE ~~CHARGING~~ SPACES** | **NUMBER OF REQUIRED EV CHARGING SPACES**  **WITH LEVEL 2 EVSE** |
| --- | --- | --- |
| 0-9 | 0 | 0 |
| 10-25 | ~~2~~ 4 | 0 |
| 26-50 | ~~4~~  8 | 2 |
| 51-75 | ~~7~~ 13 | 3 |
| 76-100 | ~~9~~  17 | 4 |
| 101-150 | ~~13~~ 25 | 6 |
| 151-200 | ~~18~~ 35 | 9 |
| 201 and over | ~~10~~ 20 percent of total1 | 25 percent of EV capable spaces |

Calculation for spaces shall be rounded up to the nearest whole number.

**. . .**

**~~5.106.5.3.4 [N] Identification.~~** (Relocated language to section 5.106.5.3 item 5) The service panel…“EV CAPABLE.”

**~~5.106.5.3.5 [N] Future charging spaces.~~**

~~Future charging spaces qualify as~~ **~~. . .~~** ~~clean air vehicles.~~

Note: (Relocated to Section 5.106.5.3.1) Future electric…agencies.

**…**

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference9s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 9

**5.106.5.4 Electric vehicle (EV) charging: medium-duty and heavy-duty. [N]**

Construction shall comply with Section 5.106.5.4.1 or Section 5.106.5.4.2 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.

Exception: For buildings less than 10,000 square feet, or on a case-by-case basis, where the local enforcing agency has evidence suitable for substantiating an adverse impact in the construction cost of the project directly related to the implementation of Section 5.106.5.4.1. When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code,* the *California Electrical Code* and as follows:

**5.106.5.4.1 Electric vehicle charging readiness requirements for warehouses, grocery stores and retail stores with planned off-street loading spaces [N]**

In order to avoid future demolition when adding EV supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformer(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the *California Electrical Code*. Construction plans and specifications shall include, but are not limited to, the following:

1. The transformer, main service equipment and subpanels shall meet the minimum power requirement in Table 5.106.5.4.1.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate one or more location(s) convenient to the planned off-street loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s), as shown in Table 5.106.5.4.1.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located, and shall terminate in close proximity to the potential future location of the charging equipment for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be of sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.1.

**TABLE 5.106.5.4.1.1: Raceway Conduit and Panel power Requirements for medium-and-heavy-duty EVSE [N].**

|  |  |  |  |
| --- | --- | --- | --- |
| Building type | Building Size  (sq. ft.) | Number of Off-street loading spaces | Additional capacity Required (kVa) for Raceway & Busway and Transformer & Panel |
| Grocery | 10,000 to 90,000 | 1 or 2 | 200 |
| 3 or Greater | 400 |
|  | Greater than 90,000 | 1 or Greater | 400 |
| Retail | 10,000 to 135,000 | 1 or 2 | 200 |
| 3 or Greater | 400 |
| Greater than 135,000 | 1 or Greater | 400 |
| Warehouse | 20,000 to 256,000 | 1 or 2 | 200 |
| 3 or Greater | 400 |
|  | Greater than 256,000 | 1 or Greater | 400 |

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference(s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 10

**SECTION 5.504, POLLUTANT CONTROL**

**. . .**

**5.504.4.7 Thermal insulation.** (Relocated from Section A5.504.4.8) Comply with the requirements of the California Department of Public Health, “Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,” Version 1.2, January 2017 (Emission testing method for California Specification 01350).

See [California Department of Public Health’s website](https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material) for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**5.504.4.7.1 Verification of compliance.** Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference(s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 11

**5.504.4.8** **Acoustical ceilings and wall panels.** (Relocated from Section A5.504.9) Comply with the requirements of the California Department of Public Health, “Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,” Version 1.2, January 2017 (Emission testing method for California Specification 01350).

See [California Department of Public Health’s website](https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material) for certification programs and testing labs.

https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

**5.504.4.8.1 Verification of compliance.** (Relocated from Section A5.504.9.1) Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

**…**

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference(s): Health & Safety Code Sections 18930.5 and 18941.10.

# ITEM 12

**SECTION A5.102.1, Definitions.**

**. . .**

# ~~LOW-EMITTING AND FUEL EFFICIENT VEHICLES~~

# …

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference – Health & Safety Code Sections 18930.5 and 18941.10

# ITEM 13

**SECTION A5.106, SITE DEVELOPMENT**

**. . .**

**~~A5.106.5.1 Designated parking for clean air vehicles~~**~~. In new projects . . .Table A5.106.5.1.2.~~

**…**

**~~A5.106.5.1.1 Tier 1.~~** ~~Provide 17 percent~~**…**as follows:

**~~TABLE A5.106.5.1.1~~**

| **~~TOTAL NUMBER OF PARKING SPACES~~** | **~~NUMBER OF~~**  **~~REQUIRED SPACES~~** |
| --- | --- |
| ~~0-9~~ | ~~1~~ |
| ~~10-25~~ | ~~3~~ |
| ~~26-50~~ | ~~7~~ |
| ~~51-75~~ | ~~11~~ |
| ~~76-100~~ | ~~15~~ |
| ~~101-150~~ | ~~26~~ |
| ~~151-200~~ | ~~30~~ |
| ~~201 and over~~ | ~~At least 17 percent~~~~of total~~~~1~~ |

~~1. Calculation for spaces shall be rounded up to the nearest whole number.~~

~~Note: Designated parking for clean air vehicles shall count toward the total parking spaces required by the local enforcing agencies.~~

**~~A5.106.5.1.2 Tier 2.~~** ~~Provide 22 percent~~**~~…~~**~~as follows.~~

**~~TABLE A5.106.5.1.2~~**

| **~~TOTAL NUMBER OF PARKING SPACES~~** | **~~NUMBER OF~~**  **~~REQUIRED SPACES~~** |
| --- | --- |
| ~~0-9~~ | ~~2~~ |
| ~~10-25~~ | ~~4~~ |
| ~~26-50~~ | ~~9~~ |
| ~~51-75~~ | ~~14~~ |
| ~~76-100~~ | ~~18~~ |
| ~~101-150~~ | ~~26~~ |
| ~~151-200~~ | ~~36~~ |
| ~~201 and over~~ | ~~At least 22 percent~~~~of total~~~~1~~ |

~~1. Calculation for spaces shall be rounded up to the nearest whole number.~~

~~Note: Designated parking for clean air vehicles shall count toward the total parking spaces required by the local enforcing agencies.~~

**~~A5.106.5.1.3 Parking stall marking.~~** ~~Paint~~**~~…~~**~~parked vehicle:~~

~~CLEAN AIR/~~

~~VANPOOL/EV~~

**~~Note:~~** ~~Vehicles…parking spaces.~~

**~~A5.106.5.1.4 Vehicle designations.~~** ~~Building~~**~~…~~**~~parking stickers.~~

**~~Notes:~~**

1. ~~Information…following sources.~~

~~a…~~

~~b…~~

~~c…~~

~~d…~~

1. ~~Purchasing…General Services.~~

***…***

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference – Health & Safety Code Sections 18930.5 and 18941.10

# ITEM 14

**A5.106.5.3 ~~[N]~~ Electric vehicle (EV) charging. [N]** Construction shall comply with Section A5.106.5.3.1 ~~and~~ or A5.106.5.3.2, and in accordance with regulations in the *California Building Code* and*,* the *California Electrical Code*. ~~to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the~~ *~~California Building Code~~* ~~and the~~ *~~California Electrical Code~~* ~~and as follows:~~

**A5.106.5.3.1 Tier 1.** Table A5.106.5.3.1 shall be used to determine the number of ~~multiple~~ EV capable charging spaces required. ~~for future installation of EVSE.~~ Refer to Section 5.106.5.3.1 for design requirements.

When charging spaces are required to be equipped with EVSE per Table A5.106.5.3.1, refer to Section 5.106.5.3.2 for the allowed use of Automatic Load Management System (ALMS) and Direct Current Fast Charger (DCFC).

**TABLE A5.106.5.3.1**

|  |  |  |
| --- | --- | --- |
| **TOTAL NUMBER OF ACTUAL PARKING SPACES** | **TIER 1**  **NUMBER OF REQUIRED EV CAPABLE ~~CHARGING~~ SPACES** | **TIER 1**  **NUMBER OF REQUIRED EV CHARGING SPACES WITH LEVEL 2 EVSE** |
| 0-9 | ~~1~~ 2 | 0 |
| 10-25 | ~~3~~ 5 | 2 |
| 26-50 | ~~6~~ 11 | ~~4~~ |
| 51-75 | ~~10~~ 19 | 6 |
| 76-100 | ~~14~~ 26 | 9 |
| 101-150 | ~~23~~ 38 | 13 |
| 151-200 | ~~27~~ 53 | 18 |
| 201 and over | ~~15~~ 30 percent of total parking spaces1 | 33 percent of EV capable spaces |

1. Calculation for spaces shall be rounded up to the nearest whole number.

**A5.106.5.3.2 Tier 2.** Table A5.106.5.3.2 shall be used to determine ~~if single or multiple charging space requirements apply for future installation of EVSE. When a single charging space is required,~~ the number of EV capable charging spaces required. ~~r~~ Refer to Section 5.106.5.3.1 for design requirements. ~~When multiple charging spaces are required, refer to Section 5.106.5.3.2 for design requirements.~~

When charging spaces are required to be equipped with EVSE per Table A5.106.5.3.2, refer to Section 5.106.5.3.2 for the allowed use of Automatic Load Management System (ALMS) and Direct Current Fast Charger (DCFC).

**~~A5.106.5.3.3 [N] Identification.~~** ~~The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as “EV CAPABLE”. The raceway termination location shall be permanently and visibly marked as “EV CAPABLE.”~~

**TABLE A5.106.5.3.2**

|  |  |  |
| --- | --- | --- |
| **TOTAL NUMBER OF ACTUAL PARKING SPACES** | **TIER 2**  **NUMBER OF REQUIRED EV CAPBLE**  **~~CHARGING~~ SPACES** | **TIER 2**  **NUMBER OF REQUIRED EV CHARGING SPACES WITH LEVEL 2 EVSE** |
| 0-9 | ~~2~~ 3 | 0 |
| 10-25 | ~~4~~ 8 | 3 |
| 26-50 | ~~8~~ 17 | 6 |
| 51-75 | ~~13~~ 28 | 9 |
| 76-100 | ~~18~~ 40 | 13 |
| 101-150 | ~~26~~ 57 | 19 |
| 151-200 | ~~36~~ 79 | 27 |
| 201 and over | ~~20~~ 45 percent of total parking spaces1 | 33 percent of EV capable spaces |

1.Calculation for spaces shall be rounded up to the nearest whole number.

**~~A5.106.5.3.4 [N] Future charging spaces.~~** ~~Future charging spaces qualify as~~ **~~. . .~~** ~~clean air vehicles.~~

**~~Note:~~** ~~Future electric vehicle charging spaces shall count toward the total parking spaces required by the local enforcing agencies.~~

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference – Health & Safety Code Sections 18930.5 and 18941.10

# ITEM 15

**A5.303.4 Water conserving plumbing fixtures and fittings.**

**A5.303.4.1 Nonwater ~~supplied~~ urinals.** Nonwater ~~supplied~~ urinals with drain cleansing action are installed in accordance with the *California Plumbing Code*.

Where approved, ~~urinal, hybrids~~ nonwater urinals as defined in Chapter 2,

shall be considered waterless urinals.

…

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference – Health & Safety Code Sections 18930.5 and 18941.10

# ITEM 16

**SECTION A5.504, POLLUTANT CONTROL**

**. . .**

**A5.504.4.7** **Resilient flooring systems, Tier 1.** …

**A5.504.4.7.1 Resilient flooring systems, Tier 2.** When resilient flooring is installed…

**~~A5.504.4.8~~ Thermal insulation~~, Tier 1~~.** (Relocated to Section 5.504.4.7) Comply with the …Specification 01350).

See California… labs.

https://www.cdph.ca.gov... material

**A5.504.4.8~~.1~~ Thermal insulation, Tier ~~2~~ 1.** Thermal insulation, No-added Formaldehyde. Install thermal insulation which complies with Tier 1 plus does not contain any added formaldehyde.

**A5.504.4.8.~~2~~ 1 Verification of compliance.** Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference – Health & Safety Code Sections 18930.5 and 18941.10

# ITEM 17

**~~A5.504.4.9~~ Acoustical ceilings and wall panels.** (Relocated to Section 5.504.4.8) Comply with the… Specification 01350).

See California… labs.

https://www.cdph.ca.gov... material

**~~A5.504.4.9.1~~ Verification of compliance.** (Relocated to Section 5.504.4.8.1) Documentation… limits.

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18941.10.

Reference – Health & Safety Code Sections 18930.5 and 18941.10

# ITEM 18

**DIVISIONA5.6 – VOLUNTARY TIERS**

**SECTION** **A5.601**

**CALGreenTIER 1 AND TIER 2**

**. . .**

**TABLE A5.601 NONRESIDENTIAL BUILDINGS****PROPOSED PERFORMANCE APPROACH:**

**. . .**

| **CATEGORY** | **ENVIRONMENTAL PERFORMANCE GOAL** | **TIER 1** | **TIER 2** |
| --- | --- | --- | --- |
| **All** | Minimum Mandatory (See Mandatory Checklist) | Meet all of the provisions of Chapter 5  (See Tier 1 Checklist) | Meet all of the provisions of Chapter 5  (See Tier 2 Checklist) |
| **DIVISION 5.1**  **Planning and Design** | ~~Designated Parking for~~  ~~Fuel Efficient Vehicles~~ | ~~Approx. 17% of total spaces~~ | ~~Approx. 22% of total spaces~~ |
|  | Electric Vehicle Charging | Approx. ~~15%~~ 30% of total spaces | Approx. ~~20%~~ 45% of total spaces |

**. . .**

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18931.7(b).

Reference(s): Health & Safety Code Sections 18930.5 and 18931.7(b).

**ITEM 19**

**A5.602,**

**CALGreen VERIFICATION GUIDELINES**

**MANDATORY MEASURES CHECKLIST**

**. . .**

| **CHAPTER**  **5 DIVISIONS** |  | **SECTION TITLE** | **CODE SECTION** | **Y** | **N/A** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFER-ENCE** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **DIVISION 5.1**  **Planning and Design** | **. . .** | **. . .** | **. . .** |  |  |  |  |
|  | Mandatory | Long-term bicycle parking | 5.106.4.1.2  through 5.106.4.1.5 |  |  |  |  |
|  | ~~Mandatory~~ | ~~Designated parking for clean air vehicles w/footnote and note~~ | ~~5.106.5.2~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~Single charging space requirements. [N]~~ | ~~5.106.5.3.1~~ |  |  |  |  |
|  | Mandatory | ~~Multiple charging space requirements.~~ EV Charging spaces (EV capable) [N] | 5.106.5.3.~~2~~ 1 |  |  |  |  |
|  | Mandatory | EV charging spaces with Level 2 EVSE w/ Item 1 and 2 | 5.106.5.3.2 |  |  |  |  |
|  | Mandatory | Accessible EVCS | 5.106.5.3.2.1 |  |  |  |  |
|  | Mandatory | EVCS signs | 5.106.5.3.2.2 |  |  |  |  |
|  | ~~Mandatory~~ | ~~Charging space calculation w/ exceptions~~ | ~~5.106.5.3.3~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~TABLE 5.106.5.3.3 w footnote~~ |  |  |  |  |  |
|  | ~~Mandatory~~ | ~~[N] Identification~~ | ~~5.106.5.3.4~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~[N] Future charging spaces with note~~ | ~~5.106.5.3.5~~ |  |  |  |  |
|  | Mandatory | Light pollution reduction [N] (with exceptions, notes and table) | 5.106.8  through 5.106.8.2 |  |  |  |  |
|  | **. . .** | **. . .** | **. . .** |  |  |  |  |
| **DIVISION 5.3**  **Water Efficiency and Conservation** (continued) | **. . .** | **. . .** | **. . .** |  |  |  |  |
|  | Mandatory | Metering faucets for wash fountains | 5.303.3.4.5 |  |  |  |  |
|  | Mandatory | Pre-rinse spray valve | 5.303.3.4.6 |  |  |  |  |
|  | Mandatory | Food waste disposers | 5.303.4.1 |  |  |  |  |
|  | **. . .** | **. . .** | **. . .** |  |  |  |  |

**A5.602.1,**

**CALGreen VERIFICATION GUIDELINES**

**TIER 1 CHECKLIST**

**. . .**

| **CHAPTER**  **5 DIVISIONS** |  | **SECTION TITLE** | **CODE SECTION** | **Y** | **N/A** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFER-ENCE** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **DIVISION 5.1**  **Planning and Design** | **. . .** | **. . .** | **. . .** |  |  |  |  |
|  | Mandatory | Long-term bicycle parking | 5.106.4.1.2  through 5.106.4.1.5 |  |  |  |  |
|  | ~~Mandatory~~ | ~~Designated parking for clean air vehicles w/footnote and note~~ | ~~5.106.5.2~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~Single charging space requirements. [N]~~ | ~~5.106.5.3.1~~ |  |  |  |  |
|  | Mandatory | ~~Multiple charging space requirements.~~ EV Charging spaces (EV capable) [N] | 5.106.5.3.~~2~~ 1 |  |  |  |  |
|  | Mandatory | EV charging spaces with Level 2 EVSE w/ Item 1 and 2 | 5.106.5.3.2 |  |  |  |  |
|  | Mandatory | Accessible EVCS | 5.106.5.3.2.1 |  |  |  |  |
|  | Mandatory | EVCS signs | 5.106.5.3.2.2 |  |  |  |  |
|  | ~~Mandatory~~ | ~~Charging space calculation w/ exceptions~~ | ~~5.106.5.3.3~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~TABLE 5.106.5.3.3 w footnote~~ |  |  |  |  |  |
|  | ~~Mandatory~~ | ~~[N] Identification~~ | ~~5.106.5.3.4~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~[N] Future charging spaces with note~~ | ~~5.106.5.3.5~~ |  |  |  |  |
|  | Mandatory | Light pollution reduction [N] (with exceptions, notes and table) | 5.106.8  through 5.106.8.2 |  |  |  |  |
|  | **. . .** | **. . .** | **. . .** |  |  |  |  |
| **DIVISION 5.3**  **Water Efficiency and Conservation** (continued) | **. . .** | **. . .** | **. . .** |  |  |  |  |
|  | Mandatory | Metering faucets for wash fountains | 5.303.3.4.5 |  |  |  |  |
|  | Mandatory | Pre-rinse spray valve | 5.303.3.4.6 |  |  |  |  |
|  | Mandatory | Food waste disposers | 5.303.4.1 |  |  |  |  |
|  | **. . .** | **. . .** | **. . .** |  |  |  |  |

**A5.602.2**

**CALGreen VERIFICATION GUIDELINES**

**TIER 2 CHECKLIST**

**. . .**

| **CHAPTER**  **5 DIVISIONS** |  | **SECTION TITLE** | **CODE SECTION** | **Y** | **N/A** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFER-ENCE** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **DIVISION 5.1**  **Planning and Design** | **. . .** | **. . .** | **. . .** |  |  |  |  |
|  | Mandatory | Long-term bicycle parking | 5.106.4.1.2  through 5.106.4.1.5 |  |  |  |  |
|  | ~~Mandatory~~ | ~~Designated parking for clean air vehicles w/footnote and note~~ | ~~5.106.5.2~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~Single charging space requirements. [N]~~ | ~~5.106.5.3.1~~ |  |  |  |  |
|  | Mandatory | ~~Multiple charging space requirements.~~ EV Charging spaces (EV capable) [N] | 5.106.5.3.~~2~~ 1 |  |  |  |  |
|  | Mandatory | EV charging spaces with Level 2 EVSE w/ Item 1 and 2 | 5.106.5.3.2 |  |  |  |  |
|  | Mandatory | Accessible EVCS | 5.106.5.3.2.1 |  |  |  |  |
|  | Mandatory | EVCS signs | 5.106.5.3.2.2 |  |  |  |  |
|  | ~~Mandatory~~ | ~~Charging space calculation w/ exceptions~~ | ~~5.106.5.3.3~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~TABLE 5.106.5.3.3 w footnote~~ |  |  |  |  |  |
|  | ~~Mandatory~~ | ~~[N] Identification~~ | ~~5.106.5.3.4~~ |  |  |  |  |
|  | ~~Mandatory~~ | ~~[N] Future charging spaces with note~~ | ~~5.106.5.3.5~~ |  |  |  |  |
|  | Mandatory | Light pollution reduction [N] (with exceptions, notes and table) | 5.106.8  through 5.106.8.2 |  |  |  |  |
|  | **. . .** | **. . .** | **. . .** |  |  |  |  |
| **DIVISION 5.3**  **Water Efficiency and Conservation** (continued) | **. . .** | **. . .** | **. . .** |  |  |  |  |
|  | Mandatory | Metering faucets for wash fountains | 5.303.3.4.5 |  |  |  |  |
|  | Mandatory | Pre-rinse spray valve | 5.303.3.4.6 |  |  |  |  |
|  | Mandatory | Food waste disposers | 5.303.4.1 |  |  |  |  |
|  | **. . .** | **. . .** | **. . .** |  |  |  |  |

**Notation:**

Authority: Health & Safety Code Sections 18930.5 and 18931.7(b).

Reference – Health & Safety Code Sections 18930.5 and 18931.7(b).