



California

# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

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<b>SECTION 5.303 INDOOR WATER USE</b> <b>5.303.1 METERS.</b> Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.			<b>SECTION 5.402 DEFINITIONS</b> <b>5.402.1 DEFINITIONS.</b> The following terms are defined in Chapter 2 (and are included here for reference) <b>ADJUST.</b> To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper. <b>BALANCE.</b> To proportion flows within the distribution system, including sub-main, branches and terminals, according to design quantities. <b>BUILDING COMMISSIONING.</b> A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements. <b>ORGANIC WASTE.</b> Food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste. <b>TEST.</b> A procedure to determine qualitative performance of a system or equipment.			<b>5.410.2 COMMISSIONING. [N]</b> New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSH-PPD or for I-occupancies and L-occupancies that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.5 shall apply. <b>Note:</b> For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements. Commissioning requirements shall include: 1. Owner's or Owner representative's project requirements. 2. Basis of design. 3. Commissioning measures shown in the construction documents. 4. Commissioning plan. 5. Functional performance testing. 6. Documentation and training. 7. Commissioning report.			<b>5.410.4.4 Reporting.</b> After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services. <b>5.410.4.5 Operation and maintenance (O &amp; M) manual.</b> Provide the building owner or representative with detailed operating and maintenance instructions and copies of guarantees/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations. <b>5.410.4.5.1 Inspections and reports.</b> Include a copy of all inspection verifications and reports required by the enforcing agency.									
<b>5.303.1.1 Buildings in excess of 50,000 square feet.</b> Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gallons (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems: a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).			<b>5.407.1 WEATHER PROTECTION.</b> Exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.			<b>5.410.4.5.2 Inspections and reports.</b> Include a copy of all inspection verifications and reports required by the enforcing agency.												
<b>5.303.1.2 Excess consumption.</b> A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gallons/day.			<b>5.407.2 MOISTURE CONTROL.</b> Employ moisture control measures by the following methods. <b>5.407.2.1 Sprinklers.</b> Design and maintain landscape irrigation systems to prevent spray on structures. <b>5.407.2.2 Entries and openings.</b> Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows: <b>5.407.2.2.1 Exterior door protection.</b> Primary exterior entries shall be covered to prevent water intrusion, using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: 1. An installed awning at least 4 feet in depth. 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. <b>5.407.2.2.2 Flashing.</b> Install flashings integrated with a drainage plane.			<b>DIVISION 5.5 ENVIRONMENTAL QUALITY</b> <b>SECTION 5.501 GENERAL</b> <b>5.501.1 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. <b>SECTION 5.502 DEFINITIONS</b> <b>5.502.1 DEFINITIONS.</b> The following terms are defined in Chapter 2 (and are included here for reference) <b>ARTERIAL HIGHWAY.</b> A general term denoting a highway primarily for through traffic usually on a continuous route. <b>A-WEIGHTED SOUND LEVEL (dBA).</b> The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made. <b>1 BTU/HR.</b> British thermal units per hour; also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour; a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit. <b>COMMUNITY NOISE EQUIVALENT LEVEL (CNEL).</b> A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn. <b>COMPOSITE WOOD PRODUCTS.</b> Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardwood, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a). <b>Note:</b> See CCR, Title 17, Section 93120.1. <b>DAY-NIGHT AVERAGE SOUND LEVEL (Ldn).</b> The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10 p.m. to 7 a.m.). <b>DECIBEL (db).</b> A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity. <b>ELECTRIC VEHICLE (EV).</b> An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, forklifts, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included. <b>ELECTRIC VEHICLE CHARGING STATION(S) (EVCS).</b> One or more spaces intended for charging electric vehicles. <b>ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).</b> The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle. <b>ENERGY EQUIVALENT (NOISE) LEVEL (Leq).</b> The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest. <b>EXPRESSWAY.</b> An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections. <b>FREEWAY.</b> A divided arterial highway with full control of access and with grade separations at intersections. <b>GLOBAL WARMING POTENTIAL (GWP).</b> The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one. <b>GLOBAL WARMING POTENTIAL VALUE (GWP VALUE).</b> A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995), or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14; the AR4 GWP values are found in column "100 yr" of Table 2.14. <b>HIGH-GWP REFRIGERANT.</b> A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hydrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150; or (b) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec. 82.3 (as amended March 10, 2009). <b>LONG RADIUS ELBOW.</b> Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter. <b>LOW-GWP REFRIGERANT.</b> A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150; and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec. 82.3 (as amended March 10, 2009). <b>MERV.</b> Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999. <b>MAXIMUM INCREMENTAL REACTIVITY (MIR).</b> The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g/2g ROG). <b>PRODUCT-WEIGHTED MIR (PW-MIR).</b> The sum of all weighted-MIR for all ingredients in a product subject to this article. The PW-MIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). <b>PSIG.</b> Pounds per square inch, gauge. <b>REACTIVE ORGANIC COMPOUND (ROC).</b> Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere. <b>SCHRADER ACCESS VALVES.</b> Access fittings with a valve core installed. <b>SHORT RADIUS ELBOW.</b> Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter. <b>SUPERMARKET.</b> For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, walk-in coolers or freezers connected to remote compressor units or condensing units. <b>VOC.</b> A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR, Title 17, Section 94060(a). <b>Note:</b> Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.												
<b>5.303.3.1 Water Closets.</b> The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets. <b>Note:</b> The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.			<b>5.408.1 CONSTRUCTION WASTE MANAGEMENT.</b> Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.			<b>5.501.2 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.303.3.2 Urinals.</b> <b>5.303.3.2.1 Wall-mounted Urinals.</b> The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush. <b>5.303.3.2.2 Floor-mounted Urinals.</b> The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.			<b>5.408.1.1 Construction waste management plan.</b> Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that: 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.			<b>5.501.3 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.303.3.3 Showerheads. [BSC-CG]</b> <b>5.303.3.3.1 Single showerhead.</b> Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads. <b>5.303.3.3.2 Multiple showerheads serving one shower.</b> When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. <b>Note:</b> A hand-held shower shall be considered a showerhead.			<b>5.408.1.2 Waste Management Company.</b> Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section. <b>Note:</b> The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.			<b>5.501.4 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.303.3.4 Faucets and fountains.</b> <b>5.303.3.4.1 Nonresidential Lavatory faucets.</b> Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi. <b>5.303.3.4.2 Kitchen faucets.</b> Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. <b>5.303.3.4.3 Wash fountains.</b> Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 (in space (inches) at 60 psi). <b>5.303.3.4.4 Metering faucets.</b> Metering faucets shall not deliver more than 0.20 gallons per cycle. <b>5.303.3.4.5 Metering faucets for wash fountains.</b> Metering faucets for wash fountains shall have a maximum flow rate of not more than 9.5 gallons per minute/20 (in space (inches) at 60 psi). <b>Note:</b> Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.			<b>5.408.1.3 Waste stream reduction alternative.</b> The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.			<b>5.501.5 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.303.3.4.6 Pre-rinse spray valve.</b> When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shut-off. <b>FOR REFERENCE ONLY:</b> The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).			<b>5.408.1.4 Documentation.</b> Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.			<b>5.501.6 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<table border="1"> <thead> <tr> <th colspan="2">TABLE H-2 STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019</th> </tr> <tr> <th>PRODUCT CLASS (Spray force in ounce force (ozf))</th> <th>MAXIMUM FLOW RATE (gpm)</th> </tr> </thead> <tbody> <tr> <td>Product Class 1 (&lt; 5.0 ozf)</td> <td>1.00</td> </tr> <tr> <td>Product Class 2 (&gt; 5.0 ozf and &lt;= 8.0 ozf)</td> <td>1.20</td> </tr> <tr> <td>Product Class 3 (&gt; 8.0 ozf)</td> <td>1.28</td> </tr> </tbody> </table>			TABLE H-2 STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALVES MANUFACTURED ON OR AFTER JANUARY 28, 2019		PRODUCT CLASS (Spray force in ounce force (ozf))	MAXIMUM FLOW RATE (gpm)	Product Class 1 (< 5.0 ozf)	1.00	Product Class 2 (> 5.0 ozf and <= 8.0 ozf)	1.20	Product Class 3 (> 8.0 ozf)	1.28	<b>5.408.2 UNIVERSAL WASTE. [A]</b> Additions and alterations to a building or tenant space that meet the scoping provisions in Section 303.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents. <b>Note:</b> Refer to the Universal Waste Rule link at: <a href="http://www.dtsc.ca.gov/universalwaste/">http://www.dtsc.ca.gov/universalwaste/</a>			<b>5.501.7 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.		
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<b>5.303.4 COMMERCIAL KITCHEN EQUIPMENT.</b> <b>5.303.4.1 Food Waste Disposers.</b> Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/food) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 5 gpm of water. <b>Note:</b> This code section does not affect local jurisdiction authority to prohibit or require disposer installation.			<b>5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.8 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.303.5 AREAS OF ADDITION OR ALTERATION.</b> For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.			<b>5.408.4 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.9 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS.</b> Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.			<b>5.408.5 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.10 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>SECTION 5.304 OUTDOOR WATER USE</b> <b>5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.</b> Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. <b>Notes:</b> 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2. 2. MWELO and supporting documents, including a water budget calculator, are available at: <a href="https://www.water.ca.gov/">https://www.water.ca.gov/</a> .			<b>5.408.6 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.11 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.304.2 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.</b> For public schools and community colleges, landscape projects as described in Sections 5.304.1.1 and 5.304.1.2 shall comply with the California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 450 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. <b>Exception:</b> Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.			<b>5.408.7 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.12 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.304.4.1 Newly constructed landscapes.</b> New construction projects with an aggregate landscape area equal to or greater than 500 square feet.			<b>5.408.8 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.13 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.304.4.2 Rehabilitated landscapes.</b> Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.			<b>5.408.9 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.14 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b> <b>SECTION 5.401 GENERAL</b> <b>5.401.1 SCOPE.</b> The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.			<b>5.408.10 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.15 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.2 Sample ordinance.</b> Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act). <b>Note:</b> A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.			<b>5.408.11 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.16 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.1 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.12 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.17 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.2 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.13 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.18 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.3 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.14 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.19 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.4 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.15 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.20 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.5 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.16 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.21 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.6 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.17 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.22 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.7 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.18 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.23 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.8 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.19 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.24 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.9 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.20 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.25 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.10 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.21 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.26 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.11 HVAC balancing.</b> In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards, the National Environmental Balancing Bureau Procedural Standards, Associated Air Balance Council National Standards or as approved by the enforcing agency.			<b>5.408.22 EXCAVATED SOIL AND LAND CLEARING DEBRIS.</b> 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. <b>Exception:</b> Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.			<b>5.501.27 SCOPE.</b> The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.												
<b>5.401.3.12 HVAC balancing.</b> In addition to testing and adjusting, before a new space-condition																		