

# SECTION A4.602 RESIDENTIAL OCCUPANCIES APPLICATION CHECKLIST

FEATURE OR MEASURE	LEVELS APPLICANT TO SELECT ELECTIVE MEASURES			VERIFICATIONS ENFORCING AGENCY TO SPECIFY VERIFICATION METHOD		
	Mandatory	Prerequisites and <sup>1</sup> electives		Enforcing Agency	Installer or Designer	Third party
		Tier 1	Tier 2	<input type="checkbox"/> All	<input type="checkbox"/> All	<input type="checkbox"/> All
<b>PLANNING AND DESIGN</b>						
<b>Site Selection</b>						
<b>A4.103.1</b> A site which complies with at least one of the following characteristics is selected: 1. An infill site is selected. 2. A greyfield site is selected. 3. An EPA-recognized Brownfield site is selected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.103.2</b> Facilitate community connectivity by one of the following methods: 1. Locate project within a 1/4-mile true walking distance of at least 4 basic services; 2. Locate project within 1/2-mile true walking distance of at least 7 basic services; 3. Other methods increasing access to additional resources.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Site Preservation</b>						
<b>A4.104.1</b> An individual with oversight responsibility for the project has participated in an educational program promoting environmentally friendly design or development and has provided training or instruction to appropriate entities.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Deconstruction and Reuse of Existing Materials</b>						
<b>A4.105.2</b> Existing buildings are disassembled for reuse or recycling of building materials. The proposed structure utilizes at least one of the following materials which can be easily reused: 1. Light fixtures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Plumbing fixtures 3. Doors and trim 4. Masonry 5. Electrical devices 6. Appliances 7. Foundations or portions of foundations						
<b>Site Development</b>						
<b>4.106.2</b> A plan is developed and implemented to manage storm water drainage during construction.	<input checked="" type="checkbox"/>					
<b>4.106.3</b> Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.	<input checked="" type="checkbox"/>					
<b>A4.106.1 Reserved.</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.106.2.1</b> Soil analysis is performed by a licensed design professional and the findings utilized in the structural design of the building.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>A4.106.2.2</b> Soil disturbance and erosion are minimized by at least one of the following: 1. Natural drainage patterns are evaluated and erosion controls are implemented to minimize erosion during construction and after occupancy. 2. Site access is accomplished by minimizing the amount of cut and fill needed to install access roads and driveways. 3. Underground construction activities are coordinated to utilize the same trench, minimize the amount of time the disturbed soil is exposed and the soil is replaced using accepted compaction methods.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.106.2.3</b> Topsoil shall be protected or saved for reuse as specified in this section. Tier 1. Displaced topsoil shall be stockpiled for reuse in a designated area and covered or protected from erosion. Tier 2. The construction area shall be identified and		<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>2</sup> <input checked="" type="checkbox"/> <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

delineated by fencing or flagging to limit construction activity to the construction area.						
<p><b>A4.106.3</b> Postconstruction landscape designs accomplish one or more of the following:</p> <ol style="list-style-type: none"> <li>1. Areas disrupted during construction are restored to be consistent with native vegetation species and patterns.</li> <li>2. Limit turf areas to the greatest extent possible. <ol style="list-style-type: none"> <li>a. Not more than 50 percent for Tier 1.</li> <li>b. Not more than 25 percent for Tier 2.</li> </ol> </li> <li>3. Utilize at least 75 percent native California or drought tolerant plant and tree species appropriate for the climate zone region.</li> <li>4. Hydrozoning irrigation techniques are incorporated into the landscape design.</li> </ol>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.106.4</b> Permeable paving is utilized for the parking, walking or patio surfaces in compliance with the following:</p> <p>Tier 1. Not less than 20 percent of the total parking, walking or patio surfaces shall be permeable.</p> <p>Tier 2. Not less than 30 percent of the total parking, walking or patio surfaces shall be permeable.</p>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.106.5</b> Roofing materials shall have a minimum 3-year aged solar reflectance and thermal emittance or a minimum Solar Reflectance Index (SRI) equal to or greater than the values specified in Tables A4.106.5.1(1) and A4.106.5.1(2) for low-rise residential buildings and Tables A4.106.5.1(3) and A4.106.5.1(4) for high rise residential buildings.</p> <p><b>Low-rise Residential</b></p> <p><b>Tier 1</b> roof covering shall meet or exceed the values contained in Table A4.106.5.1(1).</p>		<input checked="" type="checkbox"/>				

<p><b>Tier 2</b> roof covering shall meet or exceed the values contained in Table A4.106.5.1(2).</p> <p><b>High-rise Residential, Hotels and Motels</b></p> <p>Tier 1 roof covering shall meet or exceed the values contained in Table A4.106.5.1(3).</p> <p>Tier 2 roof covering shall meet or exceed the values contained in Table A4.106.5.1(4).</p>			<input checked="" type="checkbox"/> <sup>2</sup>			
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<p><b>A4.106.6</b> Install a vegetated roof for at least 50 percent of the roof area. Vegetated roofs shall comply with requirements for roof gardens and landscaped roofs in the <i>California Building Code</i>, Chapters 15 and 16.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.106.7</b> Reduce nonroof heat islands for 50 percent of sidewalks, patios, driveways or other paved areas by using one or more of the methods listed.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.106.8</b> Provide capability for the installation of electrical vehicle supply equipment in single-family and multifamily structures.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>A4.106.9</b> Provide bicycle parking facilities as noted below or meet a local ordinance, whichever is more stringent. Number of bicycle parking spaces may be reduced, as approved by the enforcing agency, due to building site characteristics, including but not limited to, isolation from other development.</p> <p>1. Provide short-term bicycle parking, per Section A4.106.9.1.</p> <p>2. Provide long-term bicycle parking for multifamily buildings, per Section A4.106.9.2.</p> <p>3. Provide long-term bicycle parking for hotel and motel buildings, per Section A4.106.9.3.</p>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>A4.106.10 [HR]</b> Outdoor lighting systems shall be designed and installed to comply with: 1. The minimum requirements in the <i>California Energy Code</i> for Lighting Zones 1-4; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IES TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table A4.106.10; or Comply with a lawfully enacted local ordinance, whichever is more stringent.						
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Innovative Concepts and Local Environmental Conditions</b>						
<b>A4.107.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Energy Efficiency</b>						
<b>General</b>						
<b>4.201.1</b> Building meets or exceeds the requirements of the <i>California Building Energy Efficiency Standards</i> <sup>3</sup> .	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Performance Approach for Newly Constructed Buildings</b>						
<b>A4.203.1.1.1</b> An Energy Design Rating for the Proposed Design Building is included in the Certificate of Compliance documentation.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.203.1.1.2</b> QII procedures specified in the Building Energy Efficiency Standards Reference Residential Appendix RA3.5 are completed.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.203.1.1.3</b> All permanently installed lighting is high efficiency and has required controls.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.203.1.2.1</b> The Energy Budget is no greater than 85 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.		<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.203.1.2.2</b> The Energy Budget is no greater than 70 percent of the			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Title 24, Part 6, Energy Budget for the Proposed Design Building.						
<b>Performance Approach for Additions and Alterations</b>						
<b>A4.204.1.1.1</b> All newly installed, permanently installed lighting is high efficacy and has required controls.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.204.1.2.1</b> When one and only one mechanical system is added or modified, the Energy Budget is no greater than 95 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building. When two or more mechanical systems are added or modified, the Energy Budget is no greater than 90 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.		<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.204.1.2.2</b> When one and only one mechanical system is added or modified, the Energy Budget is no greater than 90 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building. When two or more mechanical systems are added or modified, the Energy Budget is no greater than 85 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>WATER EFFICIENCY AND CONSERVATION</b>						
<b>Indoor Water Use</b>						
<b>4.303.1</b> Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.303.2</b> Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the <i>California Plumbing Code</i> , and shall meet the applicable referenced standards.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.303.1</b> Kitchen faucets. The maximum flow rate of kitchen faucets shall not exceed 1.5 gallons per minute at 60 psi. Kitchen faucets may temporarily			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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 1.5 gallons per minute at 60 psi. <b>Note:</b> Where complying faucets are available, aerators or other means may be used to achieve reduction.						
<b>A4.303.2</b> Alternate water source for nonpotable applications. Alternate nonpotable water sources are used for indoor potable water reduction. Alternate nonpotable water sources shall be installed in accordance with the <i>California Plumbing Code</i> .		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.303.3</b> Appliances. Dishwashers and clothes washers in residential buildings shall comply with the following: Install at least one qualified ENERGY STAR appliance with maximum water use as follows: 1. Standard Dishwashers - 4.25 gallons per cycle. 2. Compact Dishwashers - 3.5 gallons per cycle. 3. Clothes Washers - water factor of 6 gallons per cubic feet of drum capacity.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.303.4</b> Nonwater supplied urinals or waterless toilets are installed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outdoor Water Use</b>						
<b>4.304.1</b> Automatic irrigation systems controllers installed at the time of final inspection shall be weather or soil moisture-based.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.304.1</b> Install a low-water consumption irrigation system which minimizes the use of spray type heads.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.304.2</b> A rainwater capture, storage and re-use system is designed and installed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.304.3</b> A water budget shall be developed for landscape irrigation.		<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				All	All	All
<b>A4.304.4</b> Provide water efficient landscape irrigation design that				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

reduces the use of potable water. Tier 1. Does not exceed 65 percent of <i>ETo</i> times the landscape area. Tier 2. Does not exceed 60 percent of <i>ETo</i> times the landscape area.		<input checked="" type="checkbox"/> <sup>2</sup>				
<b>A4.304.5</b> A landscape design is installed which does not utilize potable water.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A304.6</b> For new water service connections, landscaped irrigated areas more than 2,500 square feet shall be provided with separate submeters or metering devices for outdoor potable water use.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>WATER REUSE SYSTEMS</b>						
<b>A4.305.1</b> Piping is installed to permit future use of a graywater irrigation system served by the clothes washer or other fixtures.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.305.2</b> Recycled water piping is installed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.305.3</b> Recycled water is used for landscape irrigation.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Innovative Concepts and Local Environmental Conditions</b>						
<b>A4.306.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b>						
<b>Foundation Systems</b>						
<b>A4.403.1</b> A Frost-protected Shallow Foundation (FPSF) is designed and constructed.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.403.2</b> Cement use in foundation mix design is reduced. Tier 1. Not less than a 20 percent reduction in cement use. Tier 2. Not less than a 25 percent reduction in cement use.		<input checked="" type="checkbox"/> <sup>2</sup>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input checked="" type="checkbox"/> <sup>2</sup>			
<b>Efficient Framing Techniques</b>						
<b>A4.404.1</b> Beams and headers and trimmers are the minimum size to adequately support the load.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



<b>A4.404.2</b> Building dimensions and layouts are designed to minimize waste.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.404.3</b> Use premanufactured building systems to eliminate solid sawn lumber whenever possible.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.404.4</b> Material lists are included in the plans which specify material quantity and provide direction for on-site cuts.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Material Sources</b>						
<b>A4.405.1</b> One or more of the following building materials, that do not require additional resources for finishing are used: 1. Exterior trim not requiring paint or stain 2. Windows not requiring paint or stain 3. Siding or exterior wall coverings which do not require paint or stain		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.405.2</b> Floors that do not require additional coverings are used including but not limited to stained, natural or stamped concrete floors.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.405.3</b> Postconsumer or preconsumer recycled content value (RCV) materials are used on the project. Tier 1. Not less than a 10-percent recycled content value. Tier 2. Not less than a 15-percent recycled content value.		<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.405.4</b> Renewable source building products are used.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Enhanced Durability and Reduced Maintenance</b>						
<b>4.406.1</b> Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Water Resistance and Moisture Management</b>						
<b>A4.407.1</b> Install foundation and landscape drains.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>A4.407.2</b> Install gutter and downspout systems to route water at least 5 feet away from the foundation or connect to landscape drains which discharge to a dry well, sump, bioswale, rainwater capture system or other approved on-site location.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.407.3</b> Provide flashing details on the building plans and comply with accepted industry standards or manufacturer's instructions.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.407.4</b> Protect building materials delivered to the construction site from rain and other sources of moisture.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.407.5</b> In Climate Zone 16 an ice/water barrier is installed at roof valleys, eaves and wall to roof intersections.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.407.6</b> Exterior doors to the dwelling are protected to prevent water intrusion.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.407.7</b> A permanent overhang or awning at least 2 feet in depth is provided.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Construction Waste Reduction, Disposal and Recycling</b>						
<b>4.408.1</b> Recycle and/or salvage for reuse a minimum of 50 percent of the nonhazardous construction and demolition waste in accordance with one of the following: 1. Comply with a more stringent local construction and demolition waste management ordinance; or 2. A construction waste management plan, per Section 4.408.2; or 3. A waste management company, per Section 4.408.3; or 4. The waste stream reduction alternative, per Section 4.408.4.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.408.1</b> Construction waste generated at the site is diverted to recycle or salvage in compliance with one of the following: 1. Tier 1 at least a 65 percent reduction. 2. Tier 2 at least a 75 percent		<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

reduction. Exception: Equivalent waste reduction methods are developed by working with local agencies.						
<b>Building Maintenance and Operation</b>						
<b>4.410.1</b> An operation and maintenance manual shall be provided to the building occupant or owner.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
<b>Innovative Concepts and Local Environmental Conditions</b>						
<b>A4.411.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions.						
Item 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Item 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ENVIRONMENTAL QUALITY</b>						
<b>Fireplaces</b>						
<b>4.503.1</b> Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with US EPA Phase II emission limits where applicable. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Pollutant Control</b>						
<b>4.504.1</b> Duct openings and other related air distribution component openings shall be covered during construction.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.2.1</b> Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.2.2</b> Paints, stains and other coatings shall be compliant with VOC limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.2.3</b> Aerosol paints and coatings shall be compliant with product weighted MIR limits for ROC and other toxic compounds.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.2.4</b> Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.3</b> Carpet and carpet systems shall be compliant with VOC limits.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.4</b> 80 percent of floor area	<input checked="" type="checkbox"/>					

receiving resilient flooring shall comply with the VOC-emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance Products Database or be certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; or meet California Dept. of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350.)						
<b>4.504.5</b> Particleboard, medium density fiberboard (MDF) and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.504.1</b> Use composite wood products made with either California Air Resources Board approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.504.2</b> Install VOC compliant resilient flooring systems. Tier 1. At least 90 percent of the resilient flooring installed shall comply. Tier 2. At least 100 percent of the resilient flooring installed shall comply.		<input checked="" type="checkbox"/> <sup>2</sup>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.504.3</b> Thermal insulation installed in the building shall meet the following requirements: Tier 1. Install thermal insulation in compliance with the VOC-emission limits defined in Collaborative for High Performance Schools (CHPS) Low-emitting Materials List. Tier 2. Install insulation which contains No-Added Formaldehyde (NAF) and is in compliance with the VOC-emission limits defined in Collaborative for High Performance Schools (CHPS) Low-emitting Materials List.		<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>2</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Interior Moisture Control</b>						

<b>4.505.2</b> Vapor retarder and capillary break is installed at slab-on-grade foundations.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.505.3</b> Moisture content of building materials used in wall and floor framing is checked before enclosure.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Indoor Air Quality and Exhaust</b>						
<b>4.506.1</b> Return air filters with a value greater than MERV 6 shall be installed on HVAC systems. Pressure drop across the filter shall not exceed 0.1 inches water column.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.506.2 [HR]</b> Provide filters on return air openings rated MERV 6 or higher during construction when it is necessary to use HVAC equipment.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A4.506.3</b> Direct-vent appliances shall be used when equipment is located in conditioned space; or the equipment must be installed in an isolated mechanical room.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Environmental Comfort</b>						
<b>4.507.1 Reserved.</b>						
<b>4.507.2.</b> Duct systems are sized, designed, and equipment is selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA 2 Manual J-2004 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D-2009 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2004 or equivalent.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Outdoor Air Quality Reserved</b>						
<b>Innovative Concepts and Local Environmental Conditions</b>						
<b>A4.509.1</b> Items in this section are necessary to address innovative concepts or local environmental conditions. Item 1 Item 2 Item 3		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>Installer and Special Inspector Qualifications</b>						

<b>Qualifications</b>						
<b>702.1</b> HVAC system installers are trained and certified in the proper installation of HVAC systems.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>702.2</b> Special inspectors employed by the enforcing agency must be qualified and able to demonstrate competence in the discipline they are inspecting.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Verifications</b>						
<b>703.1</b> Verification of compliance with this code may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance.	<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

# SECTION A5.602 NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS

APPLICATION CHECKLIST FOR BSC	MANDATORY	VOLUNTARY <sup>1</sup>	
		CALGreenTier 1	CALGreenTier 2
<b>Requirements</b>			
Project meets all of the requirements of Divisions 5.1 through 5.5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Planning and Design</b>			
<b>Site Selection</b>			
<b>A5.103.1 Community connectivity.</b> Locate project on a previously developed site within a $\frac{1}{2}$ - mile radius of at least ten basic services, listed in Section A5.103.1.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.103.2 Brownfield or greyfield site redevelopment or infill area development.</b> Select for development a brownfield in accordance with Section A5.103.2.1 or on a greyfield or infill site as defined in Section A5.102.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.103.3.1 Brownfield redevelopment.</b> Develop a site documented as contaminated and fully remediated or on a site defined as a brownfield.			
<b>Site Preservation</b>			
<b>A5.104.1.1 Local zoning requirement in place.</b> Exceed the zoning's open space requirement for vegetated open space on the site by 25 percent.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.104.1.2 No local zoning requirement in place.</b> Provide vegetated open space area adjacent to the building equal to the building footprint area.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.104.1.3 No open space required in zoning ordinance.</b> Provide vegetated open space equal to 20 percent of the total project site area.		<input type="checkbox"/>	<input type="checkbox"/>
<b>Deconstruction and Reuse of Existing Structures</b>			
<b>A5.105.1.1 Existing building structure.</b> Maintain at least 75 percent of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing) based on surface area.		<input type="checkbox"/>	<input type="checkbox"/>
<b>Exceptions:</b>			
1. Window assemblies and nonstructural roofing material.			
2. Hazardous materials that are remediated as a part of the project.		<input type="checkbox"/>	<input type="checkbox"/>
3. A project with an addition of more than two times the square footage of the existing			

<p>building.</p> <p><b>A5.105.1.2 Existing nonstructural elements.</b> Reuse existing interior nonstructural elements (interior walls, doors, floor coverings and ceiling systems) in at least 50 percent of the area of the completed building (including additions).</p> <p><b>Exception:</b> A project with an addition of more than two times the square footage of the existing building.</p> <p><b>A5.105.1.3 Salvage.</b> Salvage additional items in good condition such as light fixtures, plumbing fixtures and doors for reuse on this project in an onsite storage area or for salvage in dedicated collection bins. Document the weight or number of the items salvaged.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<b>Site Development</b>			
<p><b>5.106.1 Storm water pollution prevention.</b> Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of stormwater runoff from the construction activities through one of the following measures:</p> <p><b>5.106.1.1 Local ordinance.</b> or</p> <p><b>5.106.1.2. Best management practices (BMP).</b> See section 5.106.1.2 for BMP methods.</p> <p><b>A5.106.2 Storm water design.</b> Design storm water runoff rate and quantity in conformance with Section A5.106.2.1 and storm water runoff quality by Section A5.106.3.2 or by local requirements, whichever are stricter.</p> <p><b>A5.106.2.1 Storm water runoff rate and quantity.</b> Implement a storm water management plan resulting in no net increase in rate and quantity of storm water runoff from existing to developed conditions.</p> <p><b>Exception:</b> If the site is already greater than 50 percent impervious, implement a storm water management plan resulting in a 25-percent decrease in rate and quantity.</p> <p><b>A5.106.2.2 Storm water runoff quality.</b> Use post construction treatment control best management practices (BMPs) to mitigate (infiltrate, filter or treat) storm water runoff from the 85th percentile 24-hour runoff event (for volume-based BMPs) or the runoff produced by a rain event equal to two times the 85th percentile hourly intensity (for flow-based BMPs).</p>	<input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>  or  <input checked="" type="checkbox"/>	<input type="checkbox"/>       <input type="checkbox"/>	<input type="checkbox"/>       <input type="checkbox"/>
<p><b>A5.106.3 Low impact development (LID).</b> Reduce peak runoff in compliance with Section 5.106.1. Employ at least two of the following methods or other best management practices to allow rainwater to soak into the ground, evaporate into the air or collect in storage receptacles for irrigation or other beneficial uses. LID strategies include, but are not limited to</p>		<input type="checkbox"/>	<input type="checkbox"/>



those listed in Section A5.106.3.			
<p><b>5.106.4 Bicycle parking.</b> For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1.</p> <p><b>5.106.4.1 Bicycle parking. [BSC]</b> Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.</p> <p><b>5.106.4.1.1 Short-term bicycle parking.</b> If the new project or addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.</p> <p><b>Exception:</b> Additions or alterations which add nine or fewer visitor vehicular parking spaces</p> <p><b>5.106.4.1.2 Long-term bicycle parking.</b> For new buildings with over 10 tenant-occupants or for additions or alterations that add 10 or more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of tenant vehicular parking spaces being added, with a minimum of one space. Acceptable parking facilities shall be convenient from the street and shall meet one of the following:</p> <ol style="list-style-type: none"> <li>1. Covered, lockable enclosures with permanently anchored racks for bicycles;</li> <li>2. Lockable bicycle rooms with permanently anchored racks; or</li> <li>3. Lockable, permanently anchored bicycle lockers.</li> </ol> <p><b>Note:</b> Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.</p> <p><b>A5.106.4.3 Changing rooms.</b> For buildings with over 10 tenant-occupants, provide changing/shower facilities in accordance with Table A5.106.4.3 or document arrangements with nearby changing/shower facilities.</p>	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input checked="" type="checkbox"/></p>	<p style="text-align: center;"><input type="checkbox"/></p>	<p style="text-align: center;"><input type="checkbox"/></p>
<p><b>A5.106.5.1 Designated parking for fuel-efficient vehicles.</b> Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in:</p> <p><b>A5.106.5.1.1. Tier 1 10% of total spaces</b> per Table A5.106.5.1.1.</p> <p><b>A5.106.5.1.2. Tier 2 12% of total spaces</b> per Table A5.106.5.1.2.</p> <p><b>A5.106.5.1.3 Parking stall marking.</b></p>		<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p>	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p> <p style="text-align: center;"><input type="checkbox"/></p>

<p><b>A5.106.5.1.4 Vehicle designations.</b></p> <p><b>5.106.5.2 Designated parking.</b> In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2.</p> <p><b>5.106.5.2.1 Parking stall marking.</b> 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:</p> <p style="text-align: center;">CLEAN AIR/ VANPOOL/EV</p> <p><b>Note:</b> Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.</p>	<input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>		
<p><b>A5.106.5.3.1 Single charging space requirements.</b> When only a single charging space is required, install a listed raceway capable of accommodating a dedicated branch circuit. The raceway shall not be less than trade size 1. The raceway shall be securely fastened at the main service or subpanel and shall terminate in close proximity to the proposed location of the charging system into a listed cabinet, box or enclosure.</p> <p><b>Exception:</b> Other pre-installation methods approved by the local enforcing agency that provide sufficient conductor sizing and service capacity to install Level 2 EVSE.</p> <p><b>A5.106.5.3.2 Multiple charging spaces required.</b> When multiple charging spaces are required, plans shall include the location(s) and type of the EVSE, raceway method(s), wiring schematics and electrical calculations to verify that the electrical system has sufficient capacity to charge simultaneously all the electrical vehicles at all designated EV charging spaces at their full rated amperage. Plan design shall be based upon Level 2 EVSE at its maximum operating ampacity. Provide raceways from the electrical service panel to the designated parking areas which are required to be installed at the time of construction.</p> <p><b>Note:</b> Utilities and local enforcing agencies may have additional requirements for metering and EVSE installation, and should be consulted during the project design and installation.</p> <p><b>A5.106.5.3.3 Tier 1.</b> At least 3 percent of the total</p>		<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/>  <input type="checkbox"/>  <input checked="" type="checkbox"/>

<p>parking spaces, but not less than one, shall be capable of supporting installation of future electric vehicle supply equipment (EVSE).</p> <p><b>A5.106.5.3.4 Tier 2.</b> At least 5 percent of the total parking spaces, but not less than two, shall be capable of supporting installation of future EVSE.</p> <p><b>A5.106.5.3.5 Labeling requirement.</b> A label stating “EV CHARGE CAPABLE” shall be posted in a conspicuous place at the service panel or subpanel and the EV charging space.</p>			<input checked="" type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>
<p><b>A5.106.6 Parking capacity.</b> Design parking capacity to meet but not exceed minimum local zoning requirements.</p> <p><b>A5.106.6.1 Reduce parking capacity.</b> With the approval of the enforcement authority, employ strategies to reduce on-site parking area by</p> <ol style="list-style-type: none"> <li>1. Use of on street parking or compact spaces, illustrated on the site plan or</li> <li>2. Implementation and documentation of programs that encourage occupants to carpool, ride share or use alternate transportation.</li> </ol>			<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>
<p><b>A5.106.7 Exterior walls.</b> Meet requirements in the current edition of the <i>California Energy Code</i> and comply with either Section A5.106.7.1 or A5.106.7.2 for wall surfaces:</p> <p><b>A5.106.7.1 Fenestration.</b> Provide vegetative or man-made shading devices for all fenestration on east-, south- and west-facing walls.</p> <p><b>A5.106.7.1.1 East and west walls.</b> Shading devices shall have 30% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less.</p> <p><b>A5.106.7.1.2 South walls.</b> Shading devices shall have 60% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less.</p> <p><b>A5.106.7.2 Opaque wall areas.</b> Use wall surfacing with SRI 25 (aged), for 75% of opaque wall areas.</p>			<input type="checkbox"/>  <input type="checkbox"/>  <input type="checkbox"/>

<p><b>5.106.8 Light pollution reduction. [N]</b> Outdoor lighting systems shall be designed and installed to comply with the following:</p> <ol style="list-style-type: none"> <li>1. The minimum requirements in the <i>California Energy Code</i> for Lighting Zones 1–4 as defined in Chapter 10 of the <i>California Administrative Code</i>; and</li> <li>2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and</li> <li>3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or</li> </ol> <p>Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more</p>	<input checked="" type="checkbox"/>  Or  <input checked="" type="checkbox"/>		
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stringent. <b>Exceptions: [N]</b> 1. Luminaires that qualify as exceptions in Section 140.7 of the <i>California Energy Code</i> 2. Emergency lighting <b>Note: [N]</b> See also <i>California Building Code</i> , Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.			
<b>5.106.10 Grading and paving.</b> Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include those shown in Items 1–5. See exception for additions or alterations.	<input checked="" type="checkbox"/>		
<b>A5.106.11 Heat island effect.</b> Reduce nonroof heat islands and roof heat islands as follows: <b>A5.106.11.1 Hardscape alternatives.</b> Use one or a combination of strategies 1 through 3 for 50 percent of site hardscape or put 50 percent of parking underground. 1. Use light colored materials with an initial solar reflectance value of at least .30 as determined in accordance with ASTM Standards E 1918 or C 1549. 2. Use open-grid pavement system or pervious or permeable pavement system. <b>A5.106.11.2 Cool roof for reduction of heat island effect.</b> Use roofing materials having a minimum aged solar reflectance, thermal emittance complying with Sections A5.106.11.2.2 and A5.106.11.2.3 or a minimum aged or Solar Reflectance Index (SRI) <sup>3</sup> equal to or greater than the values shown in: Table A5.106.11.2.2 – Tier 1 or Table A5.106.11.2.3 – Tier 2 <b>Exceptions:</b> 1. Roof constructions that have a thermal mass over the roof membrane, including areas of vegetated (green) roofs, weighing at least 25 lb/sf. 2. Roof area covered by building integrated solar photovoltaic and building integrated solar thermal panels.		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

Energy Efficiency			
Performance Requirements			
<b>5.201.1 Scope.</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <sup>3</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <sup>2</sup>	<input checked="" type="checkbox"/> <sup>2</sup>
<b>A5.203.1 Energy efficiency.</b> Nonresidential, high-rise residential and hotel/motel buildings that include lighting and/or mechanical systems shall comply with Sections A5.203.1.1 and either		<input type="checkbox"/>	<input type="checkbox"/>

<p>A5.203.1.2.1 or A5.203.1.2.2. Newly constructed buildings, as well as additions and alterations, are included in the scope of these sections. Buildings permitted without lighting or mechanical systems shall comply with Section A5.203.1.1 but are not required to comply with Sections A5.203.1.1.2 or A5.203.1.2.</p>			
<p><b>A5.203.1.1.1 Outdoor lighting.</b> Newly installed outdoor lighting power is no greater than 90 percent of the Title 24, Part 6 calculated value of allowed outdoor lighting power.</p>		<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 2
<p><b>A5.203.1.1.2 Service water heating in restaurants.</b> Newly constructed restaurants 8,000 square feet or greater and with service water heaters rated 75,000 Btu/h or greater installed a solar water-heating system with a minimum solar savings fraction of 0.15 or meet one of the exceptions.</p>		<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 2
<p><b>A5.203.1.1.3 Functional areas where compliance with residential lighting standards is required.</b> For newly constructed high-rise residential dwelling units and hotel and motel guest rooms, indoor lighting complies with the applicable requirements in Appendix A4 Residential Voluntary Measures, Division A4.2 – Energy Efficiency, Section A4.203.1.1.3. For additions and alterations to high-rise residential dwelling units and hotel and motel guest rooms, indoor lighting complies with the applicable requirements in Appendix A4 Residential Voluntary Measures, Division A4.2 – Energy Efficiency, Section A4.204.1.1.1.</p>		<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 2
<p><b>A5.203.1.2.1 Tier 1.</b> For building projects that include indoor lighting or mechanical systems, but not both, the Energy Budget is no greater than 95 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building. For building projects that include indoor lighting and mechanical systems, the Energy Budget is no greater than 90 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.</p>		<input checked="" type="checkbox"/> 2	
<p><b>A5.203.1.2.2 Tier 2.</b> For building projects that include indoor lighting or mechanical systems, but not both, the Energy Budget is no greater than 90 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building. For building projects that include indoor lighting and mechanical systems, the Energy Budget is no greater than 85 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.</p>			<input checked="" type="checkbox"/> 2
<p><b>Renewable Energy</b></p>			
<p><b>A5.211.1 On-site renewable energy.</b> Use on-site renewable energy for at least 1 percent of the electrical service overcurrent protection device rating calculated in accordance with the 2013 <i>California Electrical Code</i> or 1KW, whichever is greater, in addition to the electrical demand required to meet 1 percent of natural gas and propane use calculated in</p>		<input type="checkbox"/>	<input type="checkbox"/>

accordance with the 2013 <i>California Plumbing Code</i> . A5.211.1.1 Documentation. Calculate renewable on-site system to meet the requirements of Section A5.211.1. Factor in net-metering, if offered by local utility, on an annual basis. <b>A5.211.3 Green power.</b> Participate in the local utility's renewable energy portfolio program that provides a minimum of 50-percent electrical power from renewable sources. Maintain documentation through utility billings.		<input type="checkbox"/>	<input type="checkbox"/>
<b>Elevators, Escalators and Other Equipment</b>			
<b>A5.212.1 Elevators and escalators.</b> In buildings with more than one elevator or two escalators, provide systems and controls to reduce the energy demand of elevators and escalators as follows. Document systems operation and controls in the project specifications and commissioning plan. <b>A5.212.1.1 Elevators.</b> Traction elevators shall have a regenerative drive system that feeds electrical power back into the building grid when the elevator is in motion. <b>A5.212.1.1.1 Car lights and fan.</b> A parked elevator shall turn off its car lights and fan automatically until the elevator is called for use. <b>A5.212.1.2 Escalators.</b> An escalator shall have a variable voltage variable frequency (VVVF) motor drive system that is fully regenerative when the escalator is in motion. <b>A5.212.1.4 Controls.</b> 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, Title 24, Part 2, <i>California Building Code</i> .		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
<b>Energy Efficient Steel Framing</b>			
<b>A5.213.1 Steel framing.</b> Design for and employ techniques to avoid thermal bridging.		<input type="checkbox"/>	<input type="checkbox"/>
<b>Water Efficiency and Conservation</b>			
<b>Indoor Water Use</b>			
<b>5.303.1 Meters.</b> Separate submeters or metering devices shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2. <b>5.303.1.1 New buildings or additions 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 gal/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	<input checked="" type="checkbox"/>		

<p>supplied to the following subsystems:</p> <ul style="list-style-type: none"> <li>a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s)</li> <li>b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s)</li> <li>c. Steam and hot-water boilers with energy input more than 500,000 Btu/h (147 kW)</li> </ul> <p><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 gal/day.</p>	<input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>  <input checked="" type="checkbox"/>		
<p><b>5.303.2 Water reduction.</b> Plumbing fixtures shall meet the maximum flow rate values shown in Table 5.303.2.3.</p> <p><b>Exception:</b> Buildings that demonstrate 20-percent overall water use reduction. In this case, a calculation demonstrating a 20-percent reduction in the building “water use baseline,” as established in Table 5.303.2.2, shall be provided.</p> <p><b>5.303.2.1 Areas of additions or alteration.</b> For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.2 and Section 5.303.3 shall apply to new fixtures in additions or areas of alterations to the building.</p> <p><b>A5.303.2.3.1 Tier 1 – 30-percent savings.</b> A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 30 percent shall be provided.</p> <p><b>A5.303.2.3.2 Tier 2 – 35-percent savings.</b> A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 35 percent shall be provided.</p> <p><b>A5.303.2.3.3 Forty-percent savings.</b> A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 40 percent shall be provided (Calculate savings by Water Use Worksheets)</p> <p><b>A5.303.2.3.4 Nonpotable water systems for indoor use.</b> Utilizing nonpotable water systems (such as captured rainwater, treated graywater, and recycled water) intended to supply water closets, urinals, and other allowed uses, may be used in the calculations demonstrating the 30, 35 or 40 percent reduction. The nonpotable water systems shall comply with the current edition of the <i>California Plumbing Code</i>.</p>	<input checked="" type="checkbox"/>          <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>          <input checked="" type="checkbox"/>          <input type="checkbox"/>          <input type="checkbox"/>





<p>per plate</p> <p>b. Be equipped with an integral automatic shutoff</p> <p>c. Operate at static pressure of at least 30 psi (207 kPa) when designed for a flow rate of 1.3 gpm (0.08 L/s) or less</p>			
<p><b>5.303.4 Wastewater reduction. [N]</b> Each building shall reduce by 20 percent wastewater by one of the following methods:</p> <p>1. The installation of water-conserving fixtures or</p> <p>2. Utilizing nonpotable water systems.</p>	<p>As applicable</p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>		
<p><b>A5.303.5 Dual plumbing.</b> New buildings and facilities shall be dual plumbed for potable and recycled water systems.</p>		<input type="checkbox"/>	<input type="checkbox"/>
<p><b>5.303.6 Standards for plumbing fixtures and fittings.</b> Plumbing fixtures and fittings shall be installed in accordance with the <i>California Plumbing Code</i>, and shall meet the applicable standards referenced in Table 1401.1 of the <i>California Plumbing Code</i> and in Chapter 6 of this code.</p>	<p>As applicable</p> <p><input checked="" type="checkbox"/></p>		
<b>Outdoor Water Use</b>			
<p><b>5.304.1 Water budget.</b> A water budget shall be developed for landscape irrigation use.<sup>3</sup> Applies to additions or alterations.</p>	<input checked="" type="checkbox"/>		
<p><b>5.304.2 Outdoor potable water use.</b> For new water service or for addition or alteration requiring upgraded water service for landscaped areas of at least 1,000 square feet but not more than 5,000 square feet (the level at which the Water Code § 535 applies), separate submeters or metering devices shall be installed for potable water use.</p> <p><b>A5.304.2.1 Outdoor potable water use.</b> For new water service not subject to the provisions of <i>Water Code</i> Section 535, separate meters or submeters shall be installed for outdoor potable water use for landscaped areas of at least 500 square feet but not more than 1,000 square feet (the level at which Section 5.304.2 applies).</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p><b>5.304.3 Irrigation design.</b> In new nonresidential construction or for additions or alteration with at least 1,000 square feet but not more than 2,500 square feet of cumulative landscaped area (the level at which the MWELo applies), install irrigation controllers and sensors which include the following criteria and meet manufacturer's recommendations.</p> <p><b>5.304.3.1 Irrigation controllers.</b> Automatic irrigation system controllers installed at the time of final inspection shall comply with the following:</p> <p>1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.</p> <p>2. Weather-based controllers without integral</p>	<input checked="" type="checkbox"/>		
	As applicable		

rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.  <b>Note:</b> More information regarding irrigation controller function and specifications is available from the Irrigation Association.	<input checked="" type="checkbox"/>		
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<b>A5.304.4 Potable water reduction.</b> Provide water efficient landscape irrigation design that reduces by the use of potable water. <b>A5.304.4.1 Tier 1</b> – Reduce the use of potable water to a quantity that does not exceed 60 percent of ETo times the landscape area. <b>A5.304.4.2 Tier 2</b> –Reduce the use of potable water to a quantity that does not exceed 55 percent of ETo times the landscape area. Methods used to accomplish the requirements of this section shall include, but not be limited to, the items listed in A5.304.4. <b>A5.304.4.3 Verification of compliance.</b> A calculation demonstrating the applicable potable water use reduction required by this section shall be provided.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
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<b>A5.304.5 Potable water elimination.</b> Provide a water efficient landscape irrigation design that eliminates the use of potable water beyond the initial requirements for plant installation and establishment. Methods used to accomplish the requirements of this section shall include, but not be limited to, the items listed in Section A5.304.4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>A5.304.6 Restoration of areas disturbed by construction.</b> Restore all areas disturbed during construction by planting with local native and/or noninvasive vegetation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>A5.304.7 Previously developed sites.</b> On previously developed or graded sites, restore or protect at least 50 percent of the site area with native and/or noninvasive vegetation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>A5.304.8 Graywater irrigation system.</b> Install graywater collection system for onsite subsurface irrigation using graywater.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>Water Reuse</b>			
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<b>A5.305.1 Nonpotable water systems.</b> Nonpotable water systems for indoor and outdoor use shall comply with the current edition of the <i>California Plumbing Code</i> .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.305.2 Irrigation systems.</b> Irrigation systems regulated by a local water efficient landscape ordinance or by the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) shall use recycled water.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Material Conservation and Resource Efficiency</b>			
<b>Efficient Framing Systems</b>			

<b>A5.404.1 Wood framing.</b> Employ advanced wood framing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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techniques or OVE, as permitted by the enforcing agency.			
<b>Material Sources</b>			
<b>A5.405.1 Regional materials.</b> Select building materials or products for permanent installation on the project that have been harvested or manufactured in California or within 500 miles of the project site, meeting the criteria listed in Section A5.405.1.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.405.2 Bio-based materials.</b> Select bio-based building materials per Section A5.405.2.1 or A5.405.2.2. <b>A5.405.2.1 Certified wood products.</b> Certified wood is an important component of green building strategies and the California Building Standards Commission will continue to develop a standard through the next code cycle. <b>A5.405.2.2 Rapidly renewable materials.</b> Use materials made from plants harvested within a ten-year cycle for at least 2.5 percent of total materials value, based on estimated cost.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.405.3 Reused materials.</b> Use salvaged, refurbished, refinished or reused materials for at least 5 percent of the total value, based on estimated cost of materials on the project.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.405.4 Recycled content.</b> Use materials, equivalent in performance to virgin materials, with a total (combined) recycled content value (RCV) of: <b>Tier 1.</b> The RCV shall not be less than 10 percent of the total material cost of the project. <b>Tier 2.</b> The RCV shall not be less than 15 percent of the total material cost of the project. <b>Note:</b> Use the equations in the subsections for calculating total materials cost, recycled content, RCV of materials and assemblies, and total RCV.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<b>A5.405.5 Cement and concrete.</b> Use cement and concrete made with recycled products and complying with the following sections: <b>A5.405.5.1 Cement.</b> Cement shall comply with one of the following standards: 1. Portland cement shall meet ASTM C 150. 2. Blended hydraulic cements shall meet ASTM C 595. 3. Other Hydraulic Cements shall meet ASTM C 1157. <b>A5.405.5.2 Concrete.</b> Unless otherwise directed by the Engineer of Record, use concrete manufactured with cementitious materials in accordance with Sections A5.405.5.2.1 and A5.405.5.2.1.1, as approved by the enforcing agency. <b>A5.405.5.2.1 Supplementary cementitious materials (SCMs).</b> Use concrete made with one or more of the SCMs listed in Section A5.405.5.2.1. <b>A5.405.5.2.1.1 Mix design equation.</b> Use any combination of one or more SCMs, satisfying Equation A4.5-14. Exception: Minimums in mix designs approved by the Engineer of Record may		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

<p>be lower where high early strength is needed.</p> <p><b>A5.405.5.3 Additional means of compliance.</b> Any of the following measures shall be permitted to be employed for the production of cement or concrete, depending on their availability and suitability, in conjunction with Section A5.405.5.2.</p> <p><b>A5.405.5.3.1 Cement.</b> The following measures may be used in the manufacture of cement.</p> <p><b>A5.405.5.3.1.1 Alternative fuels.</b> Where permitted by state or local air quality standards.</p> <p><b>A5.405.5.3.1.2 Alternative power.</b> Alternate electric power generated at the cement plant and/or green power purchased from the utility meeting the requirements of Section A5.211.</p>			
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<p><b>A5.405.5.3.2 Concrete.</b> The following measures may be used in the manufacture of concrete,</p> <p><b>A5.405.5.3.2.1 Alternative energy.</b> Renewable or alternative energy meeting the requirements of Section A5.211.</p> <p><b>A5.405.5.3.2.2 Recycled aggregates.</b> Concrete made with one or more of the materials listed in Section A5.405.5.3.2.2.</p> <p><b>A5.405.5.3.2.3 Mixing water.</b> Water recycled by the local water purveyor or water reclaimed from manufacturing processes and conforming to ASTM C 1602.</p> <p><b>A5.405.5.3.2.4 High strength concrete.</b> Concrete elements designed to reduce their total size compared to standard 3,000 psi concrete, as approved by the Engineer of Record.</p>			
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<b>Enhanced Durability and Reduced Maintenance</b>			
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<p><b>A5.406.1.1 Service life.</b> Select materials for longevity and minimal deterioration under conditions of use.</p> <p><b>A5.406.1.2 Reduced maintenance.</b> Select materials that require little, if any, finishing.</p> <p><b>A5.406.1.3 Recyclability.</b> Select materials that can be re-used or recycled at the end of their service life.</p>			
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<b>Weather Resistance and Moisture Management</b>			
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<p><b>5.407.1 Weather protection.</b> Provide a weather-resistant exterior wall and foundation envelope as required by <i>California Building Code</i>, Section 1403.2 and <i>California Energy Code</i>, Section 150, manufacturer's installation instructions or local ordinance, whichever is more stringent.<sup>3</sup></p>	<input checked="" type="checkbox"/>		
<p><b>5.407.2 Moisture control.</b> Employ moisture control measures by the following methods;</p> <p><b>5.407.2.1 Sprinklers.</b> Design and maintain</p>	<input checked="" type="checkbox"/>		

<p>landscape irrigation systems to prevent spray on structures.</p> <p><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:</p> <p><b>5.407.2.2.1 Exterior door protection.</b> Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:</p> <ol style="list-style-type: none"> <li>1. An installed awning at least 4 feet in depth.</li> <li>2. The door is protected by a roof overhang at least 4 feet in depth.</li> <li>3. The door is recessed at least 4 feet.</li> <li>4. Other methods which provide equivalent protection.</li> </ol> <p><b>5.407.2.2.2 Flashing.</b> Install flashings integrated with a drainage plane.</p>	<p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input checked="" type="checkbox"/></p>		
<b>Construction Waste Reduction, Disposal and Recycling</b>			
<p><b>5.408.1 Construction waste management.</b> Recycle and/or salvage for reuse a minimum of 50% 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.</p> <p><b>5.408.1.1 Construction waste management plan.</b> Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that complies with Items 1 through 4 of this section.</p> <p><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.</p> <p><b>Exceptions to Sections 5.408.1.1 and 5.408.1.2:</b></p> <ol style="list-style-type: none"> <li>1. Excavated soil and land-clearing debris.</li> <li>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.</li> </ol>	<p style="text-align: center;"><input checked="" type="checkbox"/> or</p> <p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input checked="" type="checkbox"/></p> <p style="text-align: center;"><input checked="" type="checkbox"/></p>		

<p>3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.</p> <p><b>5.408.1.3 Wastestream 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 50 percent minimum requirement as approved by the enforcing agency.</p> <p><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.</p> <p><b>5.408.3 Excavated soil and land clearing debris.</b> [BSC] 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.</p> <p><b>Exception:</b> Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.</p>	<p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>		
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<p><b>A5.408.3.1 Enhanced construction waste reduction—Tier 1.</b> Divert to recycle or salvage at least 65% of nonhazardous construction and demolition waste generated at the site.</p> <p><b>A5.408.3.1.1 Enhanced construction waste reduction—Tier 2.</b> Divert to recycle or salvage at least 80% of nonhazardous construction waste generated at the site.</p> <p><b>A5.408.3.1.2 Verification of compliance.</b> A copy of the completed waste management report or documentation of certification of the waste management company utilized shall be provided.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> <li>1. Excavated soil and land-clearing debris</li> <li>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</li> <li>3. Demolition waste meeting local ordinance or calculated in</li> </ol>		<p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>	<p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>
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consideration of local recycling facilities and markets.			
<b>Life Cycle Assessment</b>			
<b>A5.409.1 General.</b> Life cycle assessment shall be ISO 14044 compliant. The service life of the building and materials assemblies shall not be less than 60 years.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.409.2 Whole building life cycle assessment.</b> Conduct a whole building life assessment, including operating energy, showing that the building project achieves at least a 10-percent improvement for at least three of the impacts listed in Section A5.409.2.2, one of which shall be climate change, compared to a reference building.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.409.3 Materials and system assemblies.</b> If whole building analysis of the project is not elected, select a minimum of 50% of materials or assemblies based on life cycle assessment of at least three for the impacts listed in Section A5.409.2.2, one of which shall be climate change.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.409.4 Substitution for prescriptive standards.</b> Performance of a life cycle assessment completed in accordance with Section A5.409.2 may be substituted for other prescriptive provisions of Division A5.4, including those made mandatory through local adoption of Tier 1 or Tier 2 in Division A5.6.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.409.5 Verification of compliance.</b> Documentation of compliance shall be provided as follows:			
1. The assessment is performed in accordance with ISO 14044.		<input type="checkbox"/>	<input type="checkbox"/>
2. The project meets the requirements of other parts of Title 24.		<input type="checkbox"/>	<input type="checkbox"/>
3. A copy of the analysis shall be made available to the enforcement authority.		<input type="checkbox"/>	<input type="checkbox"/>
4. A copy of the analysis and any maintenance or training recommendations shall be included in the operation and maintenance manual.		<input type="checkbox"/>	<input type="checkbox"/>
See notes for available tools.			
<b>Building Maintenance and Operation</b>			
<b>5.410.1 Recycling by occupants.</b> Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. <sup>3</sup>	<input checked="" type="checkbox"/>		
<b>5.410.1.1 Additions. [A]</b> All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.	<input checked="" type="checkbox"/>		
<b>Exception:</b> Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.			





<p>to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.</p> <p><b>5.410.2.5 Documentation and training.</b>[N] A systems manual and systems operations training are required, including Occupational Safety and Health Act (OSHA) requirements in <i>California Code of Regulations</i> (CCR), Title 8, Section 5142, and other related regulations.</p> <p><b>5.410.2.5.1 Systems manual.</b> [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the items listed in this section.</p> <p><b>5.410.2.5.2 Systems operations training.</b> [N] A program for training of the appropriate maintenance staff for each equip-ment type and/or system shall be developed and documented in the commissioning report and shall include the items listed in this section.</p> <p><b>5.410.2.6 Commissioning report.</b> [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.</p>	<p style="text-align: center;">☒</p> <p style="text-align: center;">☒</p> <p style="text-align: center;">☒</p> <p style="text-align: center;">☒</p>		
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<p><b>5.410.4 Testing and adjusting.</b> Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.</p> <p><b>5.410.4.2 Systems.</b> Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project the systems listed in this section.</p> <p><b>5.410.4.3 Procedures.</b> Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.</p> <p><b>5.410.4.3.1 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, balance the</p>	<p style="text-align: center;">☒</p> <p style="text-align: center;">☒</p> <p style="text-align: center;">☒</p> <p style="text-align: center;">☒</p>		
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<p>system 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.</p> <p><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.</p> <p><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 guaranties/warranties for each system. O &amp; M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.</p> <p><b>5.410.4.5.1 Inspections and reports.</b> Include a copy of all inspection verifications and reports required by the enforcing agency.</p>	<p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>		
<b>Environmental Quality</b>			
<b>Fireplaces</b>			
<p><b>5.503.1 General.</b> Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the <i>California Energy Code</i>, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.</p> <p><b>5.503.1.1 Woodstoves.</b> Woodstoves shall comply with US EPA Phase II emission limits, where applicable.</p>	<p><input checked="" type="checkbox"/></p> <p>As applicable</p> <p><input checked="" type="checkbox"/></p>		
<b>Pollutant Control</b>			
<p><b>A5.504.1 Indoor air quality (IAQ) during construction.</b> Maintain IAQ as provided in Sections A5.504.1.1 and A5.504.1.2.</p> <p><b>A5.504.3 Temporary ventilation.</b> The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30 percent based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.</p> <p><b>A5.504.1.2 Additional IAQ measures.</b> Employ</p>		<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>

<p>additional measures as listed in Items 1 through 5 in Section A5.504.1.3.  <b>5.504.1.3 Temporary ventilation.</b> If the HVAC system is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy. Applies to additions or alterations.</p>	☒		
<p><b>A5.504.2 IAQ postconstruction.</b> Flush out the building per Section A5.504.2 prior to occupancy or if the building is occupied.  <b>A5.504.2.1 IAQ Testing.</b> A testing alternative may be employed after all interior finishes have been installed, using testing protocols recognized by the United State Environmental Protection Agency (U.S. EPA) and in accordance with Section A5.504.2.1.2. Retest as required in Section A5.504.2.1.3.  <b>A5.504.2.1.1 Maximum levels of contaminants.</b> Allowable levels of contaminant concentrations measured by testing shall not exceed the following:  1. Carbon Monoxide (CO): 9 parts per million, not to exceed outdoor levels by 2 parts per million;  2. Formaldehyde: 27 parts per billion;  3. Particulates (PM10): 50 micrograms per cubic meter;  4. 4-Phenylcyclohexene (4-PCH): 6.5 micrograms per cubic meter; and  5. Total Volatile Organic Compounds (TVOC): 300 micrograms per cubic meter.  <b>A5.504.2.1.2 Test protocols.</b> Testing of indoor air quality should include the elements listed in Items 1 through 4.  <b>A5.504.2.1.3 Noncomplying building areas.</b> For each sampling area of the building exceeding the maximum concentrations specified in Section A5.504.2.1.1, flush out with outside air and retest samples taken from the same area. Repeat the procedures until testing demonstrates compliance.</p>		<div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">As applicable</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div>	<div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">As applicable</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div> <div style="text-align: center;">☐</div>

<p><b>5.504.3 Covering of duct openings and protection of mechanical equipment during construction.</b> At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.</p>	☒		
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**5.504.4 Finish material pollutant control.** Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

**5.504.4.1 Adhesives, sealants, caulks.** Adhesives and sealants used on the project shall meet the requirements of the following standards.

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.
2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

**5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

**5.504.4.3.1 Aerosol paints and coatings.**

Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.



**5.504.4.3.2 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers



**5.504.4.4 Carpet systems.** All carpet installed in the building interior shall meet at least one of the following testing and product requirements from the items listed in this section.



**5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.



**5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.



**5.504.4.5 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 ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.) Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.



**A5.504.4.5.1 No added formaldehyde, Tier 2.**

Use composite wood products approved by the ARB as no-added formaldehyde (NAF) based resins or ultra-low emitting formaldehyde (ULEF) resins.



**5.504.4.5.3 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:



As applicable

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing







applicable to low-rise residential occupancies, see Section 5.407.2 of this code. <sup>3</sup>			
<b>Air Quality and Exhaust</b>			
<b>5.506.1 Outside air delivery.</b> For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the 2013 <i>California Energy Code</i> , or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8. <sup>3</sup>	<input checked="" type="checkbox"/>		
<b>5.506.2 Carbon dioxide (CO<sub>2</sub>) monitoring.</b> For buildings or additions equipped with demand control ventilation, CO <sub>2</sub> sensors and ventilation controls shall be specified and installed in accordance with the requirements of the 2013 <i>California Energy Code</i> , Section 120(c)(4). <sup>3</sup>	<input checked="" type="checkbox"/>		
<b>Environmental Comfort</b>			
<b>A5.507.1 Lighting and thermal comfort controls.</b> Provide controls in the workplace as described in Sections A5.507.1.1 and A5.507.1.2. <b>A5.507.1.1 Single-occupant spaces.</b> Provide individual controls that meet energy use requirements in the <i>California Energy Code</i> by Sections A5.507.1.1.1 and A5.507.1.1.2. <b>A5.507.1.1.1 Lighting.</b> Provide individual task lighting and/or daylighting controls for at least 90 percent of the building occupants. <b>A5.507.1.1.2 Thermal comfort.</b> Provide individual thermal comfort controls for at least 50 percent of the building occupants by Items 1 and 2 in Section A5.507.1.1.2. <b>A5.507.1.2 Multi-occupant spaces.</b> Provide lighting and thermal comfort system controls for all shared multi-occupant spaces.		<input type="checkbox"/>	<input type="checkbox"/>
<b>A5.507.2 Daylight.</b> Provide daylight spaces as required for toplighting and sidelighting in the <i>California Energy Code</i> . In constructing a design, consider Items 1 through 4 in Section A5.507.3.		<input type="checkbox"/>	<input type="checkbox"/>

<b>5.507.4 Acoustical control.</b> Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.  <b>Exception:</b> Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.  <b>5.507.4.1 Exterior noise transmission, prescriptive method.</b> Wall and roof-ceiling	<input checked="" type="checkbox"/>		
	<input checked="" type="checkbox"/>		



assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

**Exceptions:**

1.  $L_{dn}$  or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
2.  $L_{dn}$  or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or  $L_{dn}$  noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

**5.507.4.1.1 Noise exposure where noise contours are not readily available.** Buildings exposed to a noise level of 65 dB  $L_{eq}$ -1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

**5.507.4.2 Performance method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level ( $L_{eq}$ -1Hr) of 50 dBA in occupied areas during any hour of operation.

**5.507.4.2.1 Site features.** Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

**5.507.4.2.1 Documentation of compliance.** An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

**5.507.4.3 Interior sound transmission.** Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.



or



Outdoor Air Quality			
<p><b>5.508.1 Ozone depletion and global warming reductions.</b> Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.</p> <p><b>5.508.1.1 Chlorofluorocarbons (CFCs).</b> Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.<sup>3</sup></p> <p><b>5.508.1.2 Halons.</b> Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.<sup>1</sup></p> <p><b>A5.508.1.3 Hydrochlorofluorocarbons (HCFCs).</b> Install HVAC and refrigeration equipment that does not contain HCFCs.</p> <p><b>A5.508.1.4 Hydrofluorocarbons (HFCs).</b> Install HVAC complying with either of the following:</p> <ol style="list-style-type: none"> <li>1. Install HVAC, refrigeration and fire suppression equipment that do not contain HFCs or that do not contain HFCs with a global warming potential greater than 150.</li> <li>2. Install HVAC and refrigeration equipment that limit the use of HFC refrigerant through the use of a secondary heat transfer fluid with a global warming potential no greater than 1.</li> </ol>	<p>As applicable</p> <p><input checked="" type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>5.508.2 Supermarket refrigerant leak reduction.</b> New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.</p> <p><b>Exception:</b> Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO<sub>2</sub>), and potentially other refrigerants.</p>	<p><input checked="" type="checkbox"/></p> <p>As applicable</p>		

<p><b>5.508.2 Supermarket refrigerant leak reduction.</b> New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor</p>			
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units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

**Exception:** Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO<sub>2</sub>), and potentially other refrigerants.

**5.508.2.1 Refrigerant piping.** Piping compliant with the *California Mechanical Code* shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

**5.508.2.1.1 Threaded pipe.** Threaded connections are permitted at the compressor rack.

**5.508.2.1.2 Copper pipe.** Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

**5.508.2.1.2.1 Anchorage.** 1/4 inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

**5.508.2.1.3 Flared tubing connections.** Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

**5.508.2.1.4 Elbows.** Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

**5.508.2.2 Valves.** Valves and fittings shall comply with the *California Mechanical Code* and as follows.

**5.508.2.2.1 Pressure relief valves.** For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

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**5.508.2.2.1.1 Pressure detection.** A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

**5.508.2.2.2 Access valves.** Only Schrader access valves with a brass or steel body are permitted for use.

**5.508.2.2.2.1 Valve caps.** For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

**5.508.2.2.2.2 Seal caps.** If designed for it, the cap shall have a neoprene O-ring in place.

**5.508.2.2.2.2.1 Chain tethers.**

Chain tethers to fit over the stem are required for valves designed to have seal caps.

**Exception:** Valves with seal caps that are not removed from the valve during stem operation.

**5.508.2.3 Refrigerated service cases.**

Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

**5.508.2.3.1. Coil coating.** Consideration shall be given the heat transfer efficiency of coil coating to maximize energy efficiency.

**5.508.2.4 Refrigerant receivers.** Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver.

**5.508.2.5 Pressure testing.** The system shall be pressure tested during installation prior to evacuation and charging.

**5.508.2.5.1 Minimum pressure.** The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

**5.508.2.5.2 Leaks.** Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

**5.508.2.5.3 Allowable pressure change.** The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

**5.508.2.6 Evacuation.** The system shall be evacuated after pressure testing and prior to charging.

**5.508.2.6.1 First vacuum.** Pull a system vacuum down to at least 1000 microns (+/- 50

microns), and hold for 30 minutes.  
**5.508.2.6.2 Second vacuum.** Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.  
**5.508.2.6.3 Third vacuum.** Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

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1. Green building measures in this table may be mandatory if adopted by a city, county, or city and county as specified in Section 101.7.
2. Required prerequisite for this Tier.
3. These measures are currently required elsewhere in statute or in regulation.