



**City of Long Beach**  
 Department of Development Services  
**BUILDING AND SAFETY BUREAU**  
**2019 California Green Building Standards Code**  
 Residential Measures



FEATURE OR MEASURES	VERIFICATIONS: SPECIFY VERIFICATION METHOD		
	Enforcing Agency	Installer or Designer	Third Party
<b>PLANNING AND DESIGN</b>			
Site Development			
<b>4.106.2</b> A plan is developed and implemented to manage storm water drainage during construction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.106.3</b> Construction plan shall indicate how site grading, or a drainage system will manage all surface water flows to keep water from entering buildings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.106.4</b> Electric Vehicle (EV) charging for new construction. Install electric vehicle supply equipment (EVSE) in accordance with the California Electrical Code, Article 625.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.106.4.1</b> New one- and two-family dwellings and townhouses with attached private garages. <ol style="list-style-type: none"> <li>For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit.</li> <li>Identification. The service panel or sub panel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination shall be permanently and visibly marked as "EV CAPABLE".</li> </ol>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.106.4.2 (LBMC 18.47.020)</b> New multifamily dwellings. If residential parking is available, <ol style="list-style-type: none"> <li>25 percent of the total number of residential parking spaces on a building site, provided for all types of parking facilities, shall be EV spaces capable of supporting future EVSE.</li> <li>5 percent of the total number of the total number of residential parking spaces on a building site, provided for all types of parking facilities, shall be EVCS.</li> </ol>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.106.4.3 (LBMC 18.47.030)</b> New Hotels and motels. All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE and EVCS based on Table 4.106.4.3.1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ENERGY EFFICIENCY</b>			
<b>4.201.1</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>WATER EFFICIENCY AND CONSERVATION</b>			
Indoor Water Use			
<b>4.303.1</b> Plumbing fixtures (water closet and urinals) and fittings (faucet and shower heads) installed in residential buildings shall comply with the prescriptive requirements of Section 4.303.1.1 through 4.303.1.4.	<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 California Plumbing Code, and shall meet the applicable referenced standards referenced in Table 1701.1 of the California Plumbing Code.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor Water Use			
<b>4.304.1</b> Residential developments shall comply with a local water efficient landscape	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ordinance or the current California Department of Water Resource's Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.			
<b>MATERIAL CONSERVATION AND RESOURCE EFFICIENCY</b>			
<b>Enhanced Durability and Reduced Maintenance</b>			
<b>4.406.1</b> Annular spaces around pipes, electrical 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Construction Waste Reduction, Disposal and Recycling</b>			
<b>4.408.1. (LBMC 18.47.040)</b> The construction meeting the threshold of Section LBMC18.67.020 shall comply with LBMC Chapter 18.67	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.410.2</b> Recycling by Occupants. Where 5 or more or more multifamily dwelling units are constructed on a building site, provide recycling areas or meet a lawfully enacted local recycling ordinance, if more restrictive.	<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 New Source Performance Standards (NSPS) emission limits as applicable. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.	<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 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 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 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 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.3</b> Carpet and carpet systems shall be compliant with VOC limits.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.4</b> 80 percent of floor area 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) Floor Score Program; or meet California Dept of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emission from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.504.5.1</b> Documentation shall be provided to verify that compliant with formaldehyde limits have been met.	<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 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Indoor Air Quality and Exhaust			
<b>4.506.1</b> Exhaust fans which terminate outside the building are provided in every bathroom.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<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-2011 or equivalent. 2. Size duct systems according to ANSI/ ACCA 1 Manual D-2014 or equivalent. 3. Select heating and cooling equipment according to ANSI/ ACCA 3 Manual S-2014 or equivalent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
INSTALLER AND SPECIAL INSPECTOR			
Qualifications			
<b>702.1</b> HVAC system installers are trained and certified in the proper installation of HVAC systems.	<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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Verifications			
<b>703.1</b> Verification of compliance with this code may include construction documents, plans, specifications of builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>