

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

This is a detailed comparison of the new GreenPoint Rated New Home Single Family and Multifamily Version 6, the new 2013 CALGreen code, and LEED for Homes Version 4. The measures and credits compared here are not necessarily equivalent, please refer to the draft GPR Version 6 manual for more specific information on the new GPR measures, the CALGreen code for additional information on the CALGreen Tiers, and www.usgbc.org/v4 for information about LEED for Homes. Where "No CALGreen Reference" and "No LEED credit Reference" is noted, a direct measure reference could not be compared to GreenPoint Rated because no direct measure or credit aligns within that system and GreenPoint Rated.

This document has been reviewed by StopWaste, San Francisco Department of the Environment, Build It Green, the US Green Building Council, and USGBC California. Although every effort has been made to ensure accuracy, be advised that information may change, and that some comparisons are based on professional judgment by the reviewers. Use at your own risk.



GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)				
Measure		Total GPR points	CALGreen Tier 1	Notes	CALGreen Tier 2	Notes	LEED-H credit	LEED Points	Notes		
CALGreen Mandatory Measures											
CALGreen Residential (REQUIRED)	Meet the Mandatory Measures set forth in the 2013 California Residential Green Building Code.	4	All Residential CALGreen mandatory measures are req'd, Non-residential are required when required by the local jurisdiction.							-	No LEED reference
A. SITE											
A1. Construction Footprint	Preserve existing soil and vegetation or exceed local ordinance requirements for protecting existing site conditions. Option 1: Implement at least three of the following best practices potentially: a site preservation plan, protect trees and plants from construction activities, provide a construction staging area, incorporate contract language within General Contractor and Subcontractor agreements, and/or create a mulch bed or equivalent space Option 2: Create a project design that leaves at least 40% of the total site area undeveloped and undisturbed.	1	A4.106.2.2, A4.106.2.3	A4.106.2.2 Soil disturbance and erosion are minimized by natural drainage evaluation, reduced cut/fill for activity and underground activities are coordinated for scheduling, exposure and compaction practices. A4.106.2.3 Tier 1 Reqt: Topsoil shall be protected of saved for reuse: designated soil shall be stockpiled for reuse in a designated and covered or protected from erosion. (GPR additional requirements)	A4.106.2.3	A4.106.2.2 Soil disturbance and erosion are minimized by natural drainage evaluation, reduced cut/fill for activity and underground activities are coordinated for scheduling, exposure and compaction practices. A4.106.2.3 Tier 2 Reqt: In addition to meeting Tier 1 Reqts, the construction area shall be identified and delineate by fencing or flagging to limit construction activity to the construction area. (GPR Additional Requirements)	SSp1	Prereq	Erosion Controls During Construction a) Stockpile and protect diisturbed topsoil from erosion b) Contol the path and velocity of runoff with silt fencing or equivilant c) Protect inlets, include swales d) Provide swales to divert surface water from hillsides e) use tiers, erosion blankets, compost blankets etc on sloped areas.		
A2. Job Site Construction Waste Diversion											
A2.1 65% C&D Waste Diversion (Including Alternative Daily Cover)	Develop and implement a plan for waste diversion by identifying the types of debris that will be generated on site and the location for disposal or reuse of each material. Divert 65% (based on weight) of C&D waste from landfill.	2	A4.105.2, A4.408.1	A4.105.2 At least one of the following materials which can be easily reused: 1. Light fixtures 2. Plumbing fixtures 3. Doors and trim 4. Masonry 5. Electrical devices 6. Appliances 7. Foundation or portions of it Cal green emphasis on building component reuse counts for GPR waste diversion A4.408.1 Tier 1 Reqt. Total diversion of at least 65%	A4.105.2, A4.408.1	A4.105.2 At least one of the following materials which can be easily reused: 1. Light fixtures 2. Plumbing fixtures 3. Doors and trim 4. Masonry 5. Electrical devices 6. Appliances 7. Foundation or portions of it Cal green emphasis on building component reuse counts for GPR waste diversion. A4.408.1 Tier 2 Reqt. Total diversion of at least 75%	MRC4	1-3	Reduce total construction waste or divert from landfills and incinerators. Waste reduction compared to baseline by # of bedrooms instead of total diversion. ADC does not qualify.		
A2.2 65% C&D Waste Diversion (Excluding Alternative Daily Cover)	Divert 65% (based on weight) of C&D waste from landfill excluding Alternative Daily Cover and single source separate at least three of the following materials: wood, concrete, asphalt, metal and cardboard. Additionally , divert 65% of the remaining waste.	2	A4.105.2, A4.408.1	See above	A4.105.2, A4.408.1	See above	MRC4		See above		
A2.3 Recycling Rates from Third-Party Verified Mixed-Use Waste Facility	Divert C&D waste to a facility that reports diversion rates that are certified by the Recycling Certification Institute or an approved equivalent program.	1		No CALGreen Reference		No CALGreen Reference			No LEED reference		
A3. Recycled Content Base Material	Use foundational base material for walkways, driveways, and roadways with a minimum of 25% post-consumer recycled content by volume. (Material with a minimum of 50% pre-consumer and post-industrial recycled content will also receive credit.)	1	A4.405.3	A4.405.3 Tier 1 Reqt: Not less than 10% of Total Material Cost of project to be recycled content, (GPR focused only on aggregate)	A4.405.3	A4.405.3 Tier 2 Reqt: Not less than 15% of Total Material Cost of project to be recycled content (GPR focused only on aggregate)	MRC3	1	Concrete: at least 30% fly ash or slag used as a cement substitute and 50% recycled content or reclaimed aggregate OR 90% recycled content or reclaimed aggregate. Max of 1 LEED point for MRC3		

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A4. Heat Island Effect Reduction (Non-Roof)	Use at least one (or a combination) of the listed cool site practices on 50% of the total site impervious area. Building footprint must be excluded from the calculation. Option 1: Use light-colored materials with a solar reflectance \geq 0.3 or a SRI of 29%. Option 2: Use overhangs, shading elements, trees, and shrubs (or preserve existing trees and shrubs) to shade the impervious area (based on noon on June 21 at 15 years' growth). Option 3: Covered parking, including underground and parking garages, counts towards the total impervious area. Use covered roof material with a solar reflectance \geq than 0.3 or an SRI greater than 29%.	1	A4.106.7 A4.106.5	At least 50% reduction in heat island effect of hardscape A4.106.5 Tier 1 Req: SRI Low Rise (<2:12 SRI 64, >2:12 SRI 16)	A4.106.7	At least 50% reduction in heat island effect of hardscape A4.106.5 Tier 2 Req: SRI Low Rise (<2:12 SRI 78, >2:12 SRI 20).	SSc1	1-2	Reduce heat island effect via shading and/or nonabsorptive materials for 50-75%=1pt; >75%=2 pts of total site hardscape AND roofs
A5. Construction Environmental Quality Management Plan Including Flush-Out	Implement a Construction Environmental Quality Management Plan that includes at least all of the following: • Protect construction materials from water damage during construction. • Cover/seal ventilation ducts during construction. • Clean duct boots if exposed. • Install or apply wet and odorous materials before installing absorbent materials. • Conduct the flush-out for at least 80 hours prior to occupancy. • For rehabilitation projects, implement a dust control plan to protect occupied areas.	1	A4.407.4, 4.504.1, A4.506.1, A4.506.2 (HR)	A4.407.4 Protect construction materials from moisture only, 4.504.1 Covered ducts, A4.506.1 Filters. 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. A4.506.2 Construction filter. [HR] Provide filters on return air openings rated at MERV 6 or higher during construction.	A4.407.4, 4.504.1, A4.506.1, A4.506.2 (HR)	A4.407.4 Protect construction materials from moisture only, 4.504.1 Covered ducts, A4.506.1 Filters. 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. A4.506.2 Construction filter. [HR] Provide filters on return air openings rated at MERV 6 or higher during construction.	EQc2	0.5	No IAQ plan referenced within LEED credits. Prescriptive approach. 1. Walk off mats 2. Shoe removal and storage 3. Seal ducts and vents / pre-occupancy flushout (Pre-occupancy, flush the home for 48 hours, keeping all windows and interior doors open or earn EPA Indoor airPLUS label) 4 Air Testing. ENERGY STAR for Homes (EAp1) requires projects seal all ducts during construction.
A6. Stormwater Control: Prescriptive Path									
A6.1 Permeable Paving Material	Install permeable material on 25% of the total site hardscape, including hardscape and roadway areas but not including areas located under a covered roof surface.	1	A4.106.4	Tier 1 Req: 20% of hardscape	A4.106.4	Tier 2 Req: 30% of hardscape	SSc2	1-3	Performance based. Case 1 Points for permeable area (including planting area, vegetated roof, permeable paving, infiltration features), as percentage of total site: 50, 65, >80 = 1, 2, 3 pts respectively. Other alternatives: native or adapted plant material, vegetated roof, permanent infiltration or collection features that can handle 100% of runoff from a 2 yr, 24 hour storm.
A6.2 Filtration and/or Bio-Retention Features	Construct bio-retention or bio-filtration features on site. This includes routing downspouts through landscape. Consider hiring a professional (such as a landscape architect, designer, or geotechnical engineer) to help with design and sizing.	1		No CALGreen Reference		No CALGreen Reference	SSc2	2-3	Case 2: National Pollutant Discharge Elimination System (NPDES) projects
A6.3 Non-Leaching Roofing Materials	Install non-leaching roofing materials. Do not include copper, lead, or lead solder in flashing, gutters, or downspouts. Petroleum-based (e.g., asphalt, modified bitumen, tar, or gravel) and heavy metal-based (e.g., copper) roofing products and materials do not comply with this measure.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
A6.4 Smart Stormwater Street Design	Grade the sidewalks and roadways so water flowing off of 90% of the hardscape surfaces flows through landscaped areas before reaching the street. Design and grade the landscape adjacent to the hardscape areas to receive and manage stormwater runoff. Use curb cuts, bridged driveways, or perforated curbs to direct water from the street into the landscape before reaching storm drains. Include "Drains to Bay" or "Drains to Creek" signage at storm drains where applicable.	1		No CALGreen Reference		No CALGreen Reference	SSc2	see above	see above
A7. Stormwater Control: Performance Path	Perform a soil percolation test to evaluate the soil capacity, and use the best sustainable stormwater management practices to capture and treat 85% of total annual runoff for the entire site area.	3					SSc2	see above	see above, this measure is most aligned with LEED 80%-2yr storm vs. GPR 85% 1yr storm
B. FOUNDATION									
B1. Fly Ash and/or Slag in Concrete	Use 30% fly ash and/or slag in the concrete mix for the entire project.	1	A4.403.2	Tier 1 Req: Replace at least 20% of Portland Cement content in Concrete Mix	A4.403.2	Tier 2 Req: Replace at least 25% of Portland Cement content in Concrete Mix	MRC3	0.5-1	Concrete that consists of at least 30% fly ash or slag used as a cement substitute and 50% recycled content or reclaimed aggregate OR 90% recycled content or reclaimed aggregate.

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B2. Radon-Resistant Construction	Provide a radon resistant mitigation system in accordance with the U.S. EPA Model Standards and Techniques for Control of Radon in New Residential Buildings.	2		No CALGreen Reference		No CALGreen Reference	EQp4	Prereq	If the building is in EPA radon zone 1 (or local equivalent for projects outside the United States), design and build with radon-resistant construction techniques and follow all the requirements listed in Indoor airPLUS, 2.1.
B3. Foundation Drainage System	Install a foundation drainage system that meets all of the following criteria: <ul style="list-style-type: none"> The system is specified in the building plans. A perimeter drain is installed on all footings. A waterproof membrane covers all foundation walls. A deliberate, ventilated drainage panel is installed on the exterior of all foundation walls. Note: A standard French drain drainage system does not meet the requirements of this measure.	2	A4.407.1, A4.407.2	A4.407.1 Install foundation and landscape drains which discharge to a dry well, sump, bioswale or other approved on-site location. A4.407.2 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. (GPR 10ft plus additional requirements)	A4.407.1, A4.407.2	A4.407.1 Install foundation and landscape drains which discharge to a dry well, sump, bioswale or other approved on-site location. A4.407.2 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. (GPR 10ft plus additional requirements)	EAp1	Prereq	ENERGY STAR for Homes version 3 requirement
B4. Moisture Controlled Crawlspace	Meet all of the following criteria: <ul style="list-style-type: none"> A premium vapor retarder system, with a minimum 6-mil thickness, is installed in the crawlspace or basement. The vapor retarder is extended up the wall and piers, and is affixed with adhesive/caulk, furring strips, or treated wood nailer or equivalent attachment. Vapor retardant is installed over the entire crawlspace or basement floor. The vapor retarder is continuous, with seams and joints lapped 12 inches, staked to the ground, taped, and fully sealed with mastic at piers, pipes, etc. Any penetrations or other areas where the vapor barrier has been compromised have been sealed with tape and mastic. 	1		No CALGreen Reference		No CALGreen Reference	EAp1.1	Prereq	ENERGY STAR for Homes, Version 3 Water Management item 1.4
B5. Structural Pest Controls									
B5.1 Termite Shields and Separated Exterior Wood-to-Concrete Connections	Install a continuous, durable termite shield at the junction of the foundation and piers and mudsill, where pipes and other utilities penetrate the foundation or first floor from the ground, and wherever slab perimeter insulation is installed. Structural exterior wood elements (such as mudsills, posts, and stairs) in permanent contact with concrete or soil (such as posts, deck supports, and stair stringers) will remain moist for prolonged periods, promoting rot and attracting termites. Avoid wood-to-concrete connections or create a separation with metal or plastic fasteners/dividers (e.g., an elevated post holder) to allow water to drain and wood to easily dry out. Note that caulking between the sill and foundation is not an acceptable termite shield.	1	4.406.1	Protect from rodents	4.406.1	Protect from rodents	SSc3	0.5-2	Nontoxic pest control measures. Steel mesh barrier termite control system (1 pt). Install a physical termite barrier system (1 pt). Solid concrete foundation walls, masonry walls with a course of solid block bond beam, or concrete-filled block (0.5 pt)
B5.2 Plant Trunks, Bases, or Stems at Least 36 Inches from the Foundation	Maintain a minimum distance of 36 inches from the exterior wall to the center of the plant stem and trunk to keep roots away from the foundation, reduce the chance of pests traveling from nearby branches onto the home, and allow the homeowner to more easily inspect for termite tunnels around the home's foundation walls. This measure applies to all plants, shrubs, trees, turf, and ground covers.	1		No CALGreen Reference		No CALGreen Reference	SSc3	0.5	Design landscape features to provide a minimum 18-inch (450 millimeter) space between the exterior wall and any plantings.
C. LANDSCAPE									
C1. Plants Grouped by Water Needs (Hydrozoning)	Group plants and turf in low, medium, and high water usage hydrozones. At a minimum, all projects must have a low water zone. Projects may additionally have one or two additional zones based on the water needs of the plants. Projects with only low water use plants may have a single zone. Include a separate irrigation valve for each hydrozone.	1	A4.106.3	Post construction landscape designs accomplish one or more of the following: 1. Areas disrupted during construction are restored to be consistent with native vegetation species and patterns. 2. Limit turf areas: a. Not more than 50% for Tier 1. b. Not more than 25% for Tier 2. 3. Utilize at least 75% native California or drought tolerant plant and tree species. 4. Hydrozoning irrigation techniques incorporated into landscape design.	A4.106.3	Post construction landscape designs accomplish one or more of the following: 1. Areas disrupted during construction are restored to be consistent with native vegetation species and patterns. 2. Limit turf areas: a. Not more than 50% for Tier 1. b. Not more than 25% for Tier 2. 3. Utilize at least 75% native California or drought tolerant plant and tree species. 4. Hydrozoning irrigation techniques incorporated into landscape design.	WEc1	1-12	WEc1 performance based
			A4.106.3 Part 4	Cal Green has additional requirements that align with C3 and C4	A4.106.3 Part 4	Cal Green has additional requirements that align with C3 and C4			

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C2. Three Inches of Mulch in Planting Beds	Install a minimum of three inches of organic mulch around all trees, bushes, and other plants, including planter boxes. No points will be awarded for projects that do not include landscaping. Turf is excluded from this measure.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
C3. Resource Efficient Landscapes									
C3.1 No Invasive Species Listed by Cal-IPC	Choose trees, bushes, and other plants for the landscape area (including turf) that do not appear on the California Invasive Plant Council (Cal-IPC) Invasive Plant Inventory list.	1	A4.106.3	Calls for native and appropriate vegetation, no ban on Cal-IPC listed plant species	A4.106.3	Calls for native and appropriate vegetation, no ban on Cal-IPC listed plant species	SSp2	Prereq	USDA GRIN or NAEPPC databases, or local cooperatives
C3.2 Plants Chosen and Located to Grow to Natural Size	Choose plant species and plant locations (specifically, the proximity to neighboring plants, walkways, walls, driveways, etc.) that limit the need for shearing or pruning. All plants, trees, bushes, and other plants (but not turf) in all planting areas must be spaced to grow to their mature size and natural shape. Branches should not significantly impede any pathways between maintenance cycles. Avoid over-planting for instant effect. See Rater Manual for additional spacing requirements and restrictions. Turf is excluded from this measure.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
C3.3 Drought Tolerant, California Native, Mediterranean Species, or Other Appropriate Species	Choose plants such that 75% of the total number of plants are designated as drought tolerant or California native species.	3	A4.106.3	Both systems 75%	A4.106.3	Both systems 75%	WEc1,WEc3	1-12,1-4	WEc1 performance based, WEc3 Points for reducing turf and increasing native plant area as percentage of total landscape area.
C4. Minimal Turf in Landscape									
C4.1 No Turf on Slopes Exceeding 10% and No Overhead Sprinklers Installed in Areas Less Than Eight Feet Wide	Ensure that turf slopes do not exceed 10% and no overhead sprinklers are installed in areas less than eight feet wide. Landscaping with no turf will be granted full credit for this measure.	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
C4.2 Turf on a Small Percentage of Landscaped Area	Reduce turf areas to the following thresholds: One Water point: Less than 25% of landscaped area Two Water points: Less than 10% of landscaped area The percentage of the landscape area is based on the landscape area that the builder is completing. Landscaping with no turf will be granted full credit for this measure.	2	A4.106.3	Not more than 50% of landscaped area (GRP 25%)	A4.106.3	Not more than 25% of landscaped area. (GPR 10%)	WEc3	1-4	Points for reducing turf and increasing native plant area as percentage of total landscape area. % turf 60-25% and %native 25-75%=1-4 pts
C5. Trees to Moderate Building Temperature	Plant trees in a way that they will shade 50% or more of the west facing glazing and walls (at 4 p.m. in September) at their mature size. This can be accomplished by existing trees or newly planted deciduous trees. Trees must be deciduous to be included in the measure as they maximize cooling in the summer and solar gain in the winter. Trees do not have to be on the property to be included in the calculation.	3	A4.106.7	At least 50% reduction in heat island effect using multiple possible methods, Cal Green has more options than C5	A4.106.7	At least 50% reduction in heat island effect using multiple possible methods, Cal Green has more options than C5	SSc1	1-2	Reduce heat island effect via shading and/or nonabsorptive materials for 50-75%=1pt; >75%=2 pts of total site hardscape AND roofs
C6. High-Efficiency Irrigation System	Design a project landscape that provides for efficient irrigation and accounts for irrigation head performance specifications. All irrigation systems must be designed to prevent runoff, overspray, low-head drainage, and other similar conditions that cause water to flow onto non-irrigated areas, walkways, roadways, or structures.	2	A4.304.1	Spray type only for turf. Remaining may be a combination of: Drip, Bubblers, Drip emitters, Soaker hose, Stream-rotator spray heads.	A4.304.1	Spray type only for turf. Remaining may be a combination of: Drip, Bubblers, Drip emitters, Soaker hose, Stream-rotator spray heads.	WEc1	1-12	WEc1 performance based
C7. One Inch of Compost in the Top Six to Twelve Inches of Soil	Complete all of the following steps: • Assess the soil quality on site by having the soil professionally analyzed for texture, nutrient content, organic matter content, and pH. • Incorporate either a minimum of 1-4 inches of compost into the top 6-12 inches of soil or enough compost to bring the soil organic matter content to 3.5% for turf areas and 5% for planting beds (excluding areas reserved for plant species that will not thrive in such soils). • Use fully stabilized, certified compost as a soil amendment, where appropriate. • Loosen all soil in planting and turf areas to a minimum depth of six inches prior to final landscape grading. Top-dress with compost around established shrubs, around trees, and on turf.	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference

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C8. Rainwater Harvesting System	<p><u>Single Family</u>: Install a rainwater harvesting and storage system (including a gutter and downspout that conveys rainwater to a cistern). In a simple system, the cistern has a hose bib at the bottom of the tank, which can be used for simple garden hand watering purposes. A more extensive system has a pump that can be integrated into the landscape irrigation system or even through filters and into the home's toilet tank system. Credit is available based on the size of the cistern(s).</p> <p><u>Multifamily</u>: Install a rainwater harvesting and storage system that captures rainwater and plumbs it to offset potable water use for nonpotable demands, such as landscape irrigation, flushing toilets/urinals, or laundry to offset at least 25% of the demand for indoor and outdoor non-potable water. Credit for this measure may be achieved by using a rainwater harvesting system and/or a graywater system.</p>	3	A4.304.2	System must capture rainwater from at least 65% of roof.	A4.304.2	System must capture rainwater from at least 65% of roof.	WEc1	1-12	WEc1 performance based
C9. Recycled Wastewater Irrigation System	Install a "purple pipe" system that uses municipally recycled water for the home's irrigation system. Installing the pre-plumbing necessary for a purple pipe for future use qualifies for this measure	1	A4.304.5, A4.305.1, A4.305.2, A4.305.3	A4.304.5 - No potable water in landscaping, A4.305.1 - Recycled water piping installed for future use of clothes washers, A4.305.2 - Recycled water piping for water closets, urinals, floor drains, A4.305.3 - Recycled water used in Landscaping	A4.304.5, A4.305.2, A4.305.3	A4.304.5 - No potable water in landscaping, A4.305.1 - Recycled water piping installed for future use of clothes washers, A4.305.2 - Recycled water piping for water closets, urinals, floor drains, A4.305.3 - Recycled water used in Landscaping	WEc1	1-12	WEc1 performance based
C10. Submeter or Dedicated Meter for Landscape Irrigation	Install a landscape sub-meter combined with irrigation controllers.	2	A4.304.6	Separate submeters or metering devices for irrigated areas over 2500 square feet. Irrigation controllers not needed.	A4.304.6	Separate submitters or metering devices for irrigated areas over 2500 square feet. Irrigation controllers not needed.	EAc3	1	Install a submeter to monitor all irrigation system components (if the project has an automatic in-ground irrigation system and the landscape irrigated area is larger than 1,000 square feet)
C11. Landscape Meets Water Budget	<p>Install an irrigation system whose water budget meets one of the following thresholds: One point: ≤ 0.65 Reference Evapotranspiration (ETo) Two points: ≤ 0.50 ETo The landscape professional must do the following:</p> <ul style="list-style-type: none"> Estimate the amount of water that will be needed by a particular landscape design on a specific site. Use an approved methodology provided in the Updated Model Water Efficient Landscape Ordinance AB 1881 or a local water efficient landscape ordinance. Ensure that the design can be compared to a water budget. Ensure the water budget is met by incorporating hydrozoning, high efficiency irrigation, a native plant palette, and other best practices. 	2	A4.304.3, A4.304.4	<p>A4.304.3 Tier 1 Req: - Development of water budget conforming to Local WELO or CA DWR Model WELO.</p> <p>A4.304.4 Tier 1 Req: Irrigation Designed to not exceed 65% Eto times landscape area (GPR 65%).</p> <ol style="list-style-type: none"> Plant coefficient. Irrigation efficiency and distribution uniformity. Use of captured rainwater. Use of recycled water. <p>S. Water treated for irrigation purposes and conveyed by a water district or public entity.</p> <ol style="list-style-type: none"> Use of graywater. 	A4.304.3, A4.304.4	<p>A4.304.3 Tier 2 Req: - Development of water budget conforming to Local WELO or CA DWR Model WELO.</p> <p>A4.304.4 Tier 2 Req: Irrigation Designed to not exceed 60% Eto times landscape area (GPR 50%).</p> <ol style="list-style-type: none"> Plant coefficient. Irrigation efficiency and distribution uniformity. Use of captured rainwater. Use of recycled water. <p>S. Water treated for irrigation purposes and conveyed by a water district or public entity.</p> <ol style="list-style-type: none"> Use of graywater. 	WEc1	1-12	WEc1 performance based
C12. Environmentally Preferable Materials for Site									
C12.1 Environmentally Preferable Materials for 70% of Non-Plant Landscape Elements and Fencing	Use one or more varieties of environmentally preferable materials for 70% of the installed non-plant landscape elements, such as:	1	A4.405.3, A4.405.4	A4.405.3 Tier 1 Req: Not less than 10% of Total Material Cost of project to be recycled content., A4.405.4 Use of building materials from rapidly renewable sources.	A4.405.3, A4.405.4	A4.405.3 Tier 2 Req: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	MRc3	1	To earn 1 pt. Patio/Decking AND 2 of the following: doors, cabinets, counters, interior trim, or windows, must building systems must be installed and meet the environmental preferable products requirements.
C13. Reduced Light Pollution	<p>Shield all fixtures and direct light downward. Including:</p> <ul style="list-style-type: none"> The shielding must not cause dark sky light pollution by allowing light to shine above the horizontal plane of the light source. Exterior lights shall not cause light trespass by spilling significantly onto neighboring properties. All unshielded fixtures that let light escape skyward or trespass on neighboring properties, should be eliminated. Landscape lighting that points upward shall not be allowed. 	1	A4.106.10	High Rise Only- Outdoor Lighting Minimum requirements of CEC for Lighting Zones 1-4, BUG ratings as defined by IES TM-15-11, and Do not exceed table A4.106.10	A4.106.10	High Rise Only- Outdoor Lighting Minimum requirements of CEC for Lighting Zones 1-4, BUG ratings as defined by IES TM-15-11, and Do not exceed table A4.106.10	EAc13	0.5-1	Single Family: All exterior lighting must be Dark Sky qualified and have motion sensor controls, integrative photovoltaic cells, photosensors, or astronomic time-clock operation (0.5 pt) and/or Energy Star calculated 50% reduction (0.5 pt) Multifamily: Energy Star calcs 50% reduction AND Dark Sky qualified and controls (Prescriptive path only)
C14. Large Stature Tree(s)	Provide a minimum number of large stature trees (species whose minimum size can reach 50 feet in height and/or width according to a published reference), using the following tree / square foot ratio:	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference

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C15. Third Party Landscape Program Certification	Design and build solutions that go beyond the GreenPoint Rated landscape measures, and receive official certification from a local sustainable landscape program. Acceptable programs include the following: • San Francisco Bay area—Bay Friendly Landscaping and Gardening Coalition (http://www.bayfriendlycoalition.org/) • Los Angeles area—California Friendly Landscaping (http://www.bewaterwise.com/index.html) • Sacramento area—River-Friendly Landscaping (http://www.msa.saccounty.net/sactostormwater/RFL/) Complying with a local landscape ordinance does not meet the requirements of this measure.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
C16. Maintenance Contract with Certified Professional	Include a Bay-Friendly Qualified Professional (BFQP) or equivalent certified professional as a primary member of the maintenance team. The professional must have graduated from the Bay-Friendly Training for Maintaining Existing Landscapes program or an equivalent training program, and must hold his or her qualification current. Project manager is the preferred role for the certified individual.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
C17. Community Garden	<u>Multifamily Only</u> (2 points) Provide one of the following: • A community garden, or • Purchase shares in a local Community Supported Agriculture program.	0		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
D. STRUCTURAL FRAME AND BUILDING ENVELOPE										
D1. Optimal Value Engineering										
D1.1 Joists, Rafters, and Studs at 24 Inches on Center	Use framing that is 24 inch on center. For 1-2 story buildings: include all interior and exterior walls. For multifamily buildings > two stories, include interior and exterior walls on the top floor and only interior walls on all other floors.	3		No CALGreen Reference		No CALGreen Reference	MR4	0.5 - 1.5	Interior wall studs greater than 16" OC = 0.5 Floor joists greater than 16" OC = 0.5 Roof rafters greater than 16" OC = 0.5	
D1.2 Non-Load Bearing Door and Window Headers Sized for Load	Install headers with 4"x4" lumber or less on non-load-bearing walls. Note: An engineer or architect will typically provide a header schedule for only load-bearing walls, not non-load-bearing walls. This measure focuses on non-load-bearing walls; therefore, load-bearing walls do not need to be evaluated.	1	A4.404.1	Beams, Headers, Trimmers properly sized for load specified in CRC Tables R502.5(1)(2).	A4.404.1	Beams, Headers, Trimmers properly sized for load specified in CRC Tables R502.5(1)(2).	MR4	0.5	Implement any two of the following: for 0.5 points Size headers for actual loads, ladder blocking or drywall clips, or two stud/California corners.	
D1.3 Advanced Framing Measures	Use at least three of the strategies listed in the Rating Manual to reduce framing in walls.	2		No CALGreen Reference		No CALGreen Reference	EA1	prereq	Homes: EnergyStar v3 Thermal Enclosure System Checklist 4.4.5a-d Midrise: N/A, only sections 2, 3, and 5 covered under thermal enclosure checklist	
D2. Construction Material Efficiencies	Use wall and roof framing materials that were pre-assembled and delivered to the job site for 80% of the project, determined by board-feet or as a percentage of the total framing material. This includes pre-assembled framing components or walls without insulation. Pre-fabricated walls, floors, or roofs that have insulation installed, such as SIPs or other pre-made building systems or solid wall assemblies, are not eligible for this measure.	1	A4.404.2, A4.404.3, A4.404.4	A4.404.2 For at least 80% of the structure at least one or more of the following: 1. Building design dimensions in 2-foot increments are used. 2. Windows and doors are located at regular 16" or 24" stud positions. 3. Other methods acceptable to the enforcing agency. A4.404.3 At least 1 premanufactured building system is used. A4.404.4 Pre cut materials: Material lists and direction shall be provided for the following systems: 1. Floor framing. 2. Wall framing. 3. Ceiling and roof framing. 4. Structural panels and roof sheathing. GPR requires 80% of total framing materials	A4.404.2, A4.404.3	A4.404.2 For at least 80% of the structure at least one or more of the following: 1. Building design dimensions in 2-foot increments are used. 2. Windows and doors are located at regular 16" or 24" stud positions. 3. Other methods acceptable to the enforcing agency. A4.404.3 At least 1 premanufactured building system is used. A4.404.4 Pre cut materials: Material lists and direction shall be provided for the following systems: 1. Floor framing. 2. Wall framing. 3. Ceiling and roof framing. 4. Structural panels and roof sheathing. GPR requires 80% of total framing materials	MRc4	0.5-2	Material efficient framing met precscriptively (at least 90% of each component) for various measure mentioned above.	
D3. Engineered Lumber										
D3.1 Engineered Beams and Headers	Use engineered beams and headers in construction.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
D3.2 Wood I-Joists or Web Trusses for Floors	Use wood I-joists or web trusses for floors.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
D3.3 Engineered Lumber for Roof Rafters	Use engineered lumber for roof rafters.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
D3.4 Engineered or Finger-Jointed Studs for Vertical Applications	Use engineered or finger-jointed studs for vertical applications.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
D3.5 OSB for Subfloor	Use oriented strand board for subflooring.	0.5		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
D3.6 OSB for Wall and Roof Sheathing	Use oriented strand board for wall and roof sheathing.	0.5		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
D4. Insulated Headers	Use insulated headers for all headers on exterior walls. 90% of the headers (based on length) must comply. Note that Structural Insulated Panel (SIP) walls and Insulated Concrete Form (ICF) walls both qualify.	1		No CALGreen Reference		No CALGreen Reference	EAp1	*prereq	Homes: ENERGY STAR for Homes, Version 3, TES 4.4.5b Midrise: N/A
D5. FSC-Certified Wood	Use FSC-certified solid wood framing, OSB, and plywood.								
D5.1 Dimensional Lumber, Studs, and Timber	Use at least the following percentages of FSC-certified lumber (calculated in board feet): Two points: Minimum 40% Four points: Minimum 65% Six points: Minimum 90%	6		No CALGreen Reference		No CALGreen Reference	MRC3, MRp1	0.5-5	Framing and panel products only part of MRC3
D5.2 Panel Products	Use FSC-certified lumber (calculated in board feet): One point: Minimum 40% Two points: Minimum 65% Three points: Minimum 90% This measure includes plywood and OSB used for the subfloor, wall sheathing, interior shear walls, and roof decking.	3		No CALGreen Reference		No CALGreen Reference	MRC3, MRp1	0.5-5	Framing and panel products only part of MRC3
D6. Solid Wall Systems									
D6.1 At Least 90% of Floors	Replace at least 90% of floors (calculated in area) with a solid system. This measure excludes concrete slab-on-grade.	1	A4.404.3	See above		A4.404.3	See above	-	No LEED credit reference
D6.2 At Least 90% of Exterior Walls	Replace at least 90% of exterior walls (calculated in area) with a solid system.	2	A4.404.3	See above		A4.404.3	See above	MRC2	1 SIP walls for 90% of exterior walls and common walls
D6.3 At Least 90% of Roofs	Replace at least 90% of roofs (calculated in area) with a solid system.	2	A4.404.3	See above		A4.404.3	See above	-	No LEED credit reference
D7. Energy Heels on Roof Trusses	Design and install a roof truss with a raised heel that allows for 75% of the depth of the attic insulation value at the outside edge of the exterior wall, while also allowing for attic ventilation as required. Flat roofs that have insulation that extends over the exterior wall comply with this measure. This measure is only available to homes with ≤ 3 floors.	1		No CALGreen Reference		No CALGreen Reference		-	No LEED credit reference
D8. Overhangs and Gutters	Build an overhang around the building's entire roof, with gutters installed on 90% of eaves. Points are determined based on the size of the overhang, as follows: One Resources point: 16 inch overhang and gutters One Resource point and one Energy point: 24 inch overhang and gutters Note: This measure is only available to homes with three floors or less. Rain chains do not qualify as downspouts, unless they are 24 inches from the home, do not splash on the home, and have deliberate drainage pathways discharging at least 5 feet from the foundation, as described previously.	2	A4.407.6, A4.407.7	A4.407.6 Door protection. Exterior doors to the dwelling are covered to prevent water intrusion by one or more of the following: 1. An awning at least 4 feet in depth is installed. 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. A4.407.7 Roof overhangs. A permanent overhang or awning at least 2 feet in depth is provided at all exterior walls.		A4.407.6, A4.407.7	A4.407.6 Door protection. Exterior doors to the dwelling are covered to prevent water intrusion by one or more of the following: 1. An awning at least 4 feet in depth is installed. 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. A4.407.7 Roof overhangs. A permanent overhang or awning at least 2 feet in depth is provided at all exterior walls.	SSc3	0.5 Gutter discharge >24 in from foundation
D9. Reduced Pollution Entering the Home from the Garage									
D9.1 Detached Garage	As a prerequisite for all criteria in this measure, no heating or cooling system ductwork or central air handlers shall be present in the garage. A carport, detached garage, or no garage meets the intent of this measure.	2		No CALGreen Reference		No CALGreen Reference		EQc6 option2	2 Credit earned automatically for no garage or detached garage
D9.2 Mitigation Strategies for Attached Garage	Install an exhaust fan in the attached garage. For multifamily projects, fans must be controlled by carbon monoxide sensors where demand-controlled ventilation of garages is required. - OR - Tightly seal the air barrier between the garage and living areas. Completely seal the garage walls and ceilings adjacent to the home. Verification of air tight seal shall be accomplished by using a blower door test.	1		No CALGreen Reference		No CALGreen Reference		EA1.1, EQp3, EQc6	prereq/credit EA1.1 Homes: EnergyStar v3 prereq Midrise: NA EQp3: All HVAC must be located outside of garage, all conditioned spaces adjoining garage must be sealed. EQ6: Points can be earned for exhaust fans or no/detached garage
D10. Structural Pest and Rot Controls									
D10.1 All Wood Located At Least 12 Inches Above the Soil	Ensure that the distance between the sill/sole plate (or siding) and the finished soil grade after foundation plant landscaping and mulching is at least 12 inches. Assume at least three inches of mulching.	1		No CALGreen Reference		No CALGreen Reference		SSc3	0.5 0.5 pts per option
D10.2 Wood Framing Treated With Borates or Factory-Impregnated, or Wall Materials Other Than Wood	Comply with one of the following: • All wood three feet from the foundation is treated with Borates. • All material within three feet of the foundation uses factory-impregnated materials. • All walls are not made of wood.	1	A4.406.1	No CALGreen Reference		A4.406.1	No CALGreen Reference	SSc3	0.5 0.5 pts per option

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)			
D11. Moisture-Resistant Materials in Wet Areas (such as Kitchen, Bathrooms, Utility Rooms, and Basements)	Implement all of the following practices: <ul style="list-style-type: none"> Use non-paper-faced backer board on the walls of the tub, shower, and spa areas. Use water-resistant flooring in rooms where water using fixtures are present and within 3 feet of exterior doors. Install tile or other water-resistant materials on walls to a minimum of four inches horizontally and vertically from the edges of tub and/or shower assemblies. Painted drywall is not water-resistant. For all water heaters installed in or over the living space, install a drain pan and plumb it to a drain. Tankless and/or hybrid water heaters must also have pans and drains. For any clothes washers or dishwashers installed in or over the living space, install a leak protection/detection device. 	2		No CALGreen Reference		No CALGreen Reference	MRp2	prereq	Indoor moisture control measure: Use nonpaper-faced product or coating over wallboard above bathtubs, spas or showers. Use water resistant flooring in kitchen bathroom laundry room, spa areas and entryways. Install drain and drain pan under clothes washers and tank water heaters in or over living space.	
E. EXTERIOR										
E1. Environmentally Preferable Decking	Use one of the following preferred (see Rating Manual for definitions and restrictions) materials in non-structural deck applications (including decking planks, stair treads, stair risers, and railings): <ul style="list-style-type: none"> Reclaimed materials. Locally produced materials. Recycled-content lumber. FSC-certified wood material. 	1	A4.405.3, A4.405.4	A4.405.3 Tier 1 Reqt: Not less than 10% of Total Material Cost of project to be recycled content., A4.405.4 Use of building materials from rapidly renewable sources.		A4.405.3, A4.405.4	A4.405.3 Tier 2 Reqt: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	MRc3	1	To earn 1 pt. Patio/Decking AND 2 of the following building systems: doors, cabinets, counters, interior trim, or windows, must be installed and meet the environmental preferable products requirements.
E2. Flashing Installation Third-Party Verified	Use plans that show flashing details, including details for all significant exterior building material locations, e.g. siding, roofing, windows, doors, valleys, deck/house juncture, roof/wall junctures, chimney step, utility penetrations, and roof penetrations. Details must be verified by a qualified third-party professional.	2	A4.407.3	Flashing details in plans for: 1. Around windows and doors. 2. Roof valleys. 3. Deck connections to the structure. 4. Roof-to-wall intersections. 5. Chimneys to roof intersections. 6. Drip caps above windows and doors with architectural projections. (no 3rd party verification)		A4.407.3	Flashing details in plans for: 1. Around windows and doors. 2. Roof valleys. 3. Deck connections to the structure. 4. Roof-to-wall intersections. 5. Chimneys to roof intersections. 6. Drip caps above windows and doors with architectural projections. (no 3rd party verification)	EA1.1	prereq	Homes: EnergyStar v3 prereq Midrise: NA
E3. Rain Screen Wall System	Use siding that includes a minimum 3/8" of air space present between the siding and the drainage plan or sheathing.	2		No CALGreen Reference			No CALGreen Reference	-		No LEED credit reference
E4. Durable and Non-Combustible Cladding Materials	Construct the exterior wall finish (e.g. cladding or siding) with durable and non-combustible materials, such as, metal, stone, brick, traditional three-coat cementitious stucco, or fiber-cement.	1		No CALGreen Reference			No CALGreen Reference	-		No LEED credit reference
E5. Durable Roofing Materials										
E5.1 Durable and Fire Resistant Roofing Materials or Assembly	All roofs must have a "Class A" fire rating and a 3-year workmanship/installation warranty. Sloped (i.e. slope 2:12 or steeper) roofs and assemblies must also have a 40-year warranty. Flat (i.e. slope less than 2:12) roofs and assemblies must also have a 10-year material warranty.	1		No CALGreen Reference			No CALGreen Reference	MR3	prereq	Energy Star for Homes version 3 water management system builder checklist
E5.2 Roofing Warranty for Shingle Roofing	For Multifamily Only: All shingle roofing must carry a 3-year subcontractor warranty and at least a 20-year manufacturer's warranty.	R		No CALGreen Reference			No CALGreen Reference			No LEED credit reference
E6. Vegetated Roof	Install a vegetated roof that makes up at least the given percentage of the total roof area, as follows: Min. 25% of the total roof area: 2 points Min. 50% of the total roof area: 4 points	4	A4.106.6	At least 50% roof area vegetated (GPR 25%)		A4.106.6	At least 50% roof area vegetated (GPR 50%)	SSc2	1-3	Vegetated roof one way to reduce overall site run-off which earns 50, 65, >80% of total lot area for 1-3 pts.
F. INSULATION										
F1. Insulation with 30% Post-Consumer or 60% Post-Industrial Recycled Content	Use insulation containing at least 30% post-consumer recycled content or a mix of post-consumer and post-industrial content.									
F1.1 Walls and Floors	50% of the credit is allocated for walls and 50% is allocated for floors.	1	A4.405.3	A4.405.3 Tier 1 Reqt: Not less than 10% of Total Material Cost of project to be recycled content,		A4.405.3	A4.405.3 Tier 2 Reqt: Not less than 15% of Total Material Cost of project to be recycled content	MRc3	0.5	90% of all insulation - 25% post-consumer, 50% pre-consumer
F1.2 Ceilings	One Resources point available.	1	A4.405.3	See above		A4.405.3	See above	MRc3	see above	see above

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
F2. Insulation Meets CDPH Low Emissions Residential Standard			Use insulation that meets the specifications for the CDPH 2010 Standard Method residential standard.						
F2.1 Walls and Floors	50% of the credit is allocated for walls and 50% is allocated for floors.	1	A4.504.3	Thermal insulation installed in the building shall meet the following requirements: Tier 1 Reqt: Install thermal insulation in compliance with the VOC-emission limits defined in Collaborative for High Performance Schools (CHPS) Low-emitting Materials List.	A4.504.3	Tier 2 Reqt: Must meet Tier 1 requirements and in addition must contain No-Added Formaldehyde (NAF)	MRC3	0.5	Low VOC Insulation
F2.2 Ceilings	One IAQ/Health point is available.	1	A4.504.3	See above	A4.504.3	See above	MRC3	0.5	Low VOC Insulation
F3. Insulation That Does Not Contain Fire Retardants			Use insulation with no halogenated flame retardants and no plastic foam insulation products (with the exception of exterior insulation installed over sheathing).						
F3.1 Cavity Walls and Floors	50% of the credit is allocated for walls and 50% is allocated for floors.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
F3.2 Ceilings	One IAQ/Health point is available.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
F3.3 Interior and Exterior	One IAQ/Health point is available. This measure includes exterior insulation as well as cavity and interior insulation.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
G. PLUMBING									
G1. Efficient Distribution of Domestic Hot Water									
G1.1 Insulated Hot Water Pipes	Insulate all hot water pipes.	1		No CALGreen Reference		No CALGreen Reference	EAc2	2	Option 3: Install at least R-4 insulation on all domestic hot water piping, including subslab pipes.
G1.2 WaterSense Volume Limit for Hot Water Distribution	Meet the EPA WaterSense Standards for the volume limit for hot water distribution.	1		No CALGreen Reference		No CALGreen Reference	EA2	2-5	3pts additional points if Performance tested
G1.3 Increased Efficiency in Hot Water Distribution	Design and implement the plumbing system so the water temperature at the farthest fixture from the hot water source increases a minimum of 10 degrees Fahrenheit after running for 0.25 gallons (or approximately 4 cups of water). All fixtures must comply.	2		No CALGreen Reference		No CALGreen Reference	EA2	2-5	3pts additional points if Performance tested
G2. Install Water-Efficient Fixtures									
G2.1 WaterSense Showerheads with Matching Compensation Valve	Showerheads must be WaterSense® certified with a flow rate of ≤ 2.0 gallons per minute. Showerheads must be installed with a matching compensation valve. The automatic compensation valve must be rated for the minimum flow rate of the showerhead.	2	4.303.1, 4.303.2	Mandatory flow rate only	4.303.1, 4.303.2	Mandatory flow rate only	WE2, WE3	1-12, 1-6	National Baseline: 10-65% improvement. <1.75 gallons per minute (1 pt) or 1.5 gallons per minute (2 pts), plus 1-12 pts for % water use reduction
G2.2 WaterSense Bathroom Faucets	Residential lavatory faucets should have a flow rate ≤ 1.5 gallons/minute. Non-residential metered faucets should have a flow rate ≤ .25 gallons/minute. The flow rate mechanism may be factory installed or an accessory.	1	4.303.1, 4.303.2	See above	4.303.1, 4.303.2	See above	WE2, WE3	See above	<1.5 gallons per minute (1 pt) or 1.0 gallons per minute (2 pts), plus 1-12 pts for % water use reduction
G2.3 WaterSense Toilets with a Maximum Performance (MaP) Threshold of No Less Than 500 Grams	Install high-efficiency toilets in the dwelling. Toilets must use 1.29 gallons per flush or less with a Maximum Performance (MaP) score of 500 grams or greater.	1	4.303.1, 4.303.2	See above	4.303.1, 4.303.2	See above	WE2, WE3	See above	<1.1 gallons per flush average over all toilets (1 pt), 1-12 pts for % water use reduction (no Map score required)
G3. Pre-Plumbing for Graywater System									
	Install the pre-plumbing system necessary for a graywater system. At a minimum, pre-plumbing consists of installing all of the appropriate indoor plumbing drain assemblies to collect water from the desired sites and stubbing out to the exterior.	1	A4.305.1		A4.305.1		-		No LEED credit reference
G4. Operational Graywater System									
	Design and install a graywater system for landscape irrigation use (i.e., not a septic system) or indoor water use.	3	A4.303.2	Alternate nonpotable water sources are used for indoor potable water reduction and installed in accordance with the California Plumbing Code.	A4.303.2	Alternate nonpotable water sources are used for indoor potable water reduction and installed in accordance with the California Plumbing Code.	WE2	See above	see above
G5. Submeter Water for Tenants									
	Submeter water use for all residences and non-residential tenants, if any. Ratio or allocation billing is not eligible.	2		No CALGreen Reference		No CALGreen Reference	WE1.1	Prereq	Homes: Whole house meter Midrise: Submeter each unit or building
H. HEATING, VENTILATION, AND AIR CONDITIONING									
H1. Sealed Combustion Units									
H1.1 Sealed Combustion Furnace	Install furnaces or water heaters that qualify as any one of the following: • True sealed combustion unit. • Power vented units. • Passive atmospherically vented or natural draft units outside the building. • Gas furnaces or water heaters outside the building envelope. • Electric appliances.	1	A4.506.3	Direct-vent heating and cooling equipment shall be utilized if the equipment will be located in the conditioned space or install the space heating and water heating equipment in an isolated mechanical room.	A4.506.3	Direct-vent heating and cooling equipment shall be utilized if the equipment will be located in the conditioned space or install the space heating and water heating equipment in an isolated mechanical room.	EQp2, EQ c5	Prereq, 1-2	Space- and water-heating equipment that involves combustion must either be: closed combustion (i.e. sealed supply air and exhaust ducting), power-vented exhaust, or located in a detached utility building or open-air facility.
H1.2 Sealed Combustion Water Heater	Two IAQ/Health points are available. This measure is a requirement associated with measure J9.	2	A4.506.3	See above	A4.506.3	See above	EQp2, EQ c5	See above	See above

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
H2. High Performing Zoned Hydronic Radiant Heating System	Include a high performing hydronic radiant heating system in the dwelling. Electric heating, forced air heating, and/or systems with a fan of any kind, including through/on the wall hydronic fan units, are not eligible for this measure. Hydronic heating systems with a cooling feature are eligible for this measure.	2		No CALGreen Reference		No CALGreen Reference	EAc11	2-3	Hydronic system fully within conditioned space (2 pt), install an outdoor reset control that modulates distribution water temp based on outdoor air temperature for an additional (1 pt)
H3. Effective Ductwork									
H3.1 Duct Mastic on Duct Joints and Seams	Only fiber mesh tape that is thoroughly embedded in duct mastic is acceptable.	1		No CALGreen Reference		No CALGreen Reference	EA1.1	Prereq	Homes: EnergyStar v3 prereq Midrise: Performance path: Commissioning using Energy Star Multifamily High Rise Buildings Testing and Verification Protocols Prescriptive path: Duct leakage to outside testing required
H3.2 Pressure Balance the Ductwork System	Install an additional return duct in the master bedroom and/or other large rooms that can be closed off with a door. Install a jump duct or transfer grille between these rooms and the hall or main living area. For dwellings that do not have forced air heating and/or cooling systems, depressurize the dwelling and/or rooms to achieve this measure.	1		No CALGreen Reference		No CALGreen Reference	EQ3	1	Balancing of Heating and Cooling Distribution Systems Option 3
H4. ENERGY STAR® Bathroom Fans Per HVI Standards with Air Flow Verified	Install an ENERGY STAR® qualified bathroom exhaust fan that is ducted to outdoors and controlled to operate whenever relative humidity > 60%. A bathroom is defined as any room containing a tub and/or shower. Each bathroom exhaust fan must be sized according to the Home Ventilating Institute guidelines.	1		No CALGreen Reference		No CALGreen Reference	EQp1, EQc3	Prereq, 1-3	Local exhaust and Whole House ventilation requirements, additional strategies for enhanced (1-3 pts)
H5. Advanced Practices for Cooling									
H5.1 ENERGY STAR Ceiling Fans in Living Areas and Bedrooms	Install ENERGY STAR ceiling fans and light kits in living areas and bedrooms. Living areas, where occupants spend the majority of their time, include living, family, or recreation rooms, but not kitchens, laundry rooms, garages, basements, or bathrooms.	1		No CALGreen Reference		No CALGreen Reference	EAc10	1-4	(Prescriptive only) Design and install HVAC that is more efficient than required by EnergyStar for Homes, Version 3
H5.2 Operable Windows and Skylights Located to Induce Cross Ventilation in At Least One Room in 80% of Units	Install operable windows and/or skylights in at least one main room in at least 80% of units to allow for cross ventilation. In 80% of all units, operable windows and/or skylights must be installed on two or more adjacent or opposing surfaces in at least one major living area to induce cross-ventilation in the unit. Inlet and outlet window operational areas must each be a minimum of 2% of the floor area of that ventilation area.	1		No CALGreen Reference		No CALGreen Reference			No LEED credit reference
H6. Whole House Mechanical Ventilation Practices to Improve Indoor Air Quality									
H6.1 Meet ASHRAE 62.2-2012 Ventilation Residential Standards	Ensure that the mechanical ventilation system meets the ASHRAE Standard 62.2-2010 for minimum requirements for mechanical ventilation. This measure includes whole house mechanical ventilation as well as ventilation for bathroom and kitchens.	R		No CALGreen Reference		No CALGreen Reference	EQp1	Prereq	All buildings: Meet ASHRAE 62.2-2010 (specific sections) Single Family: Also meet 2009 International Residential Code.
H6.2 Advanced Ventilation Standards	Meet the following criteria: • Ventilation fan: size for continuous operation, HVI-rated and deliver ≤0.35 air changes per hour • MERV 6 filters on supply and balanced ventilation systems. • Fans and ductwork: minimize noise and vibration transfer to the living space. • Ventilation system controls, including the on/off switch, must be clearly labeled. • Develop a Homeowner Manual regarding the ventilation system purpose, operation, and maintenance.	1		No CALGreen Reference		No CALGreen Reference	EQc1	1-2	Points earned for controls and/or installing a balanced ventilation system that does not exceed ASHRAE 62.2-2010 by more than 10%
H6.3 Outdoor Air Ducted to Bedroom and Living Areas	Filter all outdoor air (≥ MERV 6 filter) and duct and supply it directly to all bedrooms and main living areas. The outdoor air duct can be achieved by a supply system or balanced (exhaust and supply) system where the supply is separately ducted to those areas.	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
H7. Effective Range Hood Design and Installation									
H7.1 Effective Range Hood Ducting and Design	Meet the requirements for minimum and maximum airflows, duct installation, and range hood design and performance.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
H7.2 Automatic Range Hood Control	Ensure that the range hood is equipped with a control to automatically turn on when the range or oven is used for cooking.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
H8. No Fireplace or Sealed Gas Fireplace	<p>If the dwelling has a fireplace, it meets the following:</p> <ul style="list-style-type: none"> - Gas: minimum efficiency of 60%, per the Natural Resources Canada product database. - Natural gas or propane: power vented or direct vented, has a permanently fixed glass front, and complies with ANSI/Z21.88/CSA 2.33 Harmonized Standard, "Vented Gas Fireplace Heaters," of the International Code Council's (ICC's) International Fuel Gas Code. - All: minimum 6 square inch combustion air duct from the outside, and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device. <p>Wood-burning fireplaces are not eligible for this measure. Gas fireplaces outside the home's envelope (such as in a patio area) are not considered a part of this measure.</p>	1	4.503.1	Sealed Gas Fireplace	4.503.1	Sealed Gas Fireplace	EQp2	Prereq	Any combustion fireplaces must be fully enclosed. Non closed combustion fireplaces must pass BPI or RESNET standards
H9. Humidity Control Systems	<ul style="list-style-type: none"> • Conduct a detailed analysis of moisture loads to determine if there is a need for a central dehumidification control system • When dehumidification is needed, use a humidity control system to maintain humidity ratios below 0.012 (lb. water vapor/lb. dry air), per Section 52.2 of ASHRAE Standard 55-2010. <p>Humidity control equipment should be selected to maintain maximum humidity levels based on the summer design indoor air temperature.</p>	1		No CALGreen Reference		No CALGreen Reference	EQc3	1	Enhanced ventilation. Credit can be earned for humidistat controller.
H10. Register Design Per ACCA Manual T	Design, size, and install supply and return registers according to ACCA Manual T.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
I. RENEWABLE ENERGY									
I1. Pre-Plumbing for Solar Water Heating	<ul style="list-style-type: none"> • Install one of the following: <ul style="list-style-type: none"> - Two insulated plumbing pipes from the roof/attic area to the main water header - An accessible straight chase, conduit, or sleeve with an internal diameter of at least three inches. The chase should be capped off and airtight. • Install electrical conduit from the roof/attic area to an appropriately located junction box. • Engineer the roof trusses to handle an additional load. • Ensure that adequate space is available for a 100-gallon solar storage tank with a pressure-relief drain line. • Verify the capacity of the load of the pump. Install a receptacle outlet. • Provide an unobstructed section of south or west roof area of at least 64 square feet for the installation of modules. The pre-plumbing does not need to penetrate the roof. 	1		No CALGreen Reference		No CALGreen Reference	EAc3	1	Homes: active solar ready design Midrise: NA Note: Can not earn if SolarDHW is installed
I2. Preparation for Future Photovoltaic Installation	<ul style="list-style-type: none"> • If roof mounted, provide an unshaded, unobstructed section of south or west roof area ≥ 200 square feet. If ground mounted, provide a reserved area free of obstructions. • Install electrical conduit from the roof/attic area to a junction box next to the buildings' electrical service entrance area. • Engineer the roof trusses to handle an additional load. • Provide an area near the electric service entrance area for the inverter • Provide a roof plan with the preferred location for photovoltaic modules and the conduit location clearly marked. Provide structural information on what added/reduced loads the roof should accommodate. <p>Use a licensed and qualified electrician or solar installer to determine the project's exact installation specifications. Pre-wiring does not need to penetrate the roof. Note that this measure is not available for developments with 10 or more units.</p>	1		No CALGreen Reference		No CALGreen Reference	EAc3	1	Homes: active solar ready design Midrise: NA Note: Can not earn if SolarPV is installed
I3. Onsite Renewable Generation (Solar PV, Solar Thermal, and Wind)	Offset energy use with on-site renewable energy generation. One point will be awarded for every 4% offset. Refer to the Rating manual for the calculation methodology for both total home energy use and % offset.	25		No CALGreen Reference		No CALGreen Reference	EA1.4	See below	Prescriptive: On site renewable energy. Performance included with modeling

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)	2013 CALGreen code				LEED for Homes (Version 4)				
I4. Net Zero Energy Home	Design the dwelling to reduce the need for site energy based on annual energy use. The calculations are based on energy consumed and generated over a one-year period using calculations and energy assumptions of a dwelling and typical occupant uses. This project must meet the California 2013 Energy Efficiency Standards without the contributions of photovoltaic energy offsets. Use the GreenPoint Rated Near/Net Zero calculator to calculate the offset for the measures to verify compliance with this measure. This calculator will use the outputs from Title 24 compliance software for heating, cooling, and domestic hot water. The following equivalencies are recognized for credit: Living Building Challenge certification: Net Zero Energy Building Certification.								
I4.1 Near Zero Energy Home	Offset the estimated annual site energy use by at least 80% using the GreenPoint Rated Near/Net Zero calculator or other approved methodology described in 14.	2		No CALGreen Reference		No CALGreen Reference	EAp1.4	See below	performance included with modeling
I4.2 Net Zero Electric	Offset the estimated annual site energy use by 100% using the GreenPoint Rated Near/Net Zero calculator or other approved methodology above. To accomplish this, the home must be all electric. Measure I4.1, "Near Zero Energy Home," is a prerequisite for this measure; therefore, a project that offsets 100% of the estimated annual site energy will earn six points.	4		No CALGreen Reference		No CALGreen Reference	EAp1.4	See below	performance included with modeling
I5. Solar Hot Water Systems to Preheat Domestic Hot Water	Use only solar water heaters that are Solar Rating and Certification Corporation (SRCC) certified. The solar water heater must be the primary heater. The system must serve at least 40% of the hot water load, as calculated using F-Chart, other CEC-approved software, or a jurisdiction-approved calculation method. A swimming pool solar water system does not satisfy this measure.	4		No CALGreen Reference		No CALGreen Reference	EAp1.4	See below	Prescriptive: On site renewable energy. Performance included with modeling
I6. Photovoltaic System for Multifamily Projects	Provide a portion of the estimated annual electric energy demand with a solar photovoltaic system, as follows: Four points: 60% of common area load Eight points: 90% of common area load Twelve points: 10% or more of the load for residential units Include all areas of the project built by the developer in the estimated demand.	12		No CALGreen Reference		No CALGreen Reference	EAp1.4	see below	Prescriptive: On site renewable energy. Performance included with modeling
J. BUILDING PERFORMANCE AND TESTING									
J1. Third-Party Verification of Quality of Insulation Installation	Have a meeting with (at a minimum) a Home Energy Rating System (HERS) rater, insulation contractor, drywall contractor, and general contractor to review the Quality of Insulation Installation (QII) and thermal bypass criteria process and the checklist to be completed by responsible parties.	1	A4.203.1.1.2		A4.203.1.1.2		EAp1.1	Prereq	EnergyStar for Homes v3 prereq
J2. Supply and Return Air Flow Testing	Use a Home Performance Professional to perform air flow testing of supply and return registers and verify that flow meets the design performance targets. If test results are not as designed, conduct corrective actions to achieve the performance targets. Use a flow hood to test the total supply air flow rates in each room of the home. Performance air flow testing should follow Building Performance Institute (BPI) standard testing practices, or an equivalent recognized methodology.	2		No CALGreen Reference		No CALGreen Reference	EAp1.1, EQc3	Prereq, 1	EnergyStar for Homes v3 prereq, Have supply air flow rates be within 20% or 25 cfm of ACCA Manual J, as tested by 3rd party rater
J3. Mechanical Ventilation Testing and Low Leakage	Use a certified HERS Rater to conduct a mechanical ventilation system (supply and exhaust fan used for ventilation) test and verify that performance meets or exceeds ASHRAE Standard 62.2-2010 requirements. Also, pressurize to verify that the duct system does not leak more than 6%.	1		No CALGreen Reference		No CALGreen Reference	EA1.1	Prereq	Homes: EnergyStar v3 prereq Midrise: NA
J4. Combustion Appliance Safety Testing	Use a certified Home Performance Professional to conduct a combustion safety test (if needed) to ensure carbon monoxide flue gases are not backdrafting into the home from an open combustion fireplace, water heater, or furnace. All action items from the Building Performance Institute (BPI) Technical Standards must be completed, and the project must pass draft and spillage tests. Testing should follow BPI standard testing practices, or an equivalent recognized methodology.	1		No CALGreen Reference		No CALGreen Reference	EQc4	1	Option 2: Enhanced Combustion Venting Measures

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)					2013 CALGreen code				LEED for Homes (Version 4)	
J5. Building Performance Exceeds Title 24 Part 6										
J5.1 Home Outperforms Title 24 Part 6	Build the dwelling to outperform energy efficiency requirements as follows: • 2008 Title 24 projects: exceed energy code by ≤ 15%; 25 energy points will be awarded for every 1% achieved over 15%. • 2013 Title 24 projects: exceed energy code by ≤ X%; 25 energy points will be awarded for every 1% achieved over X%. (X to be determined on or before 7/1/2014) The percentage performance above code is shown in the Title 24 CF-1R form for low-rise residential buildings and PERF-1 form for residential buildings over three stories tall and for nonresidential buildings. The final simulation report must be used to show evidence that the project exceeds the CEC. The report must include the actual building components and HVAC systems included in the final building.	60		A4.201.1, A4.203.1.1.1, A4.203.1.2.1, A4.204.1.2.1	A4.203.1.1.1 An Energy Design Rating for the Proposed Design Building is included in the Certificate of Compliance documentation. A4.203.1.1.2 QII procedures specified in the Building Energy Efficiency Standards Reference Residential Appendix RA3.5 are completed. A4.203.1.1.3 All permanently installed lighting is high efficiency and has required controls. A4.203.1.2.1 The Energy Budget is no greater than 85 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.	A4.201.1, A4.203.1.1.1, A4.203.1.2.2, A4.204.1.2.2	A4.203.1.1.1 An Energy Design Rating for the Proposed Design Building is included in the Certificate of Compliance documentation. A4.203.1.1.2 QII procedures specified in the Building Energy Efficiency Standards Reference Residential Appendix RA3.5 are completed. A4.203.1.1.3 All permanently installed lighting is high efficiency and has required controls. A4.203.1.2.2 The Energy Budget is no greater than 70 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.	EA1.4	1-30	See above, Performance ASHRAE 90.1-2010, Insulation 10%-20% above 2012 International Energy Conservation Code (IECC), Chapter 4, or local code, Window U values above ENERGY STAR requirements
J5.2 Non-Residential Spaces Outperform Title 24 - 1 pt for every 1% above minimum	Earn one Energy point for every 1% that the project outperforms the CEC energy modeling summary, based on a weighted average of the square footage of the non-residential area. If more than one Title 24 report is available for the non-residential portions of the project, use the worst-case scenario for the rating. This measure applies to non-residential ancillary spaces only. Only applicable on projects where more than 20% of the conditioned floor area is dedicated to non-residential units.	60			Refer to CA 2013 CALGreen Non-Residential Building Code		Refer to CA 2013 CALGreen Non-Residential Building Code	N/A	N/A	Refer to LEED BD&C requirements for non-residential spaces
J6. Title 24 Prepared and Signed by a CABEC Certified Energy Analyst	Use a Certified Energy Analyst (CEA) who has been certified by the California Association of Building Energy Consultants (CABEC) to prepare and sign a Title 24 Energy report.	1			No CALGreen Reference		No CALGreen Reference	EAp1	Prereq	Homes: NA Midrise: USGBC residential simulation guidelines. Must be CEA or CEPE
J7. Participation in Utility Program with Third-Party Plan Review	Participate in an energy efficiency incentive program or a renewable energy program with a third-party plan review offered by a local utility. Implementation of all planned measures must be verified by a certified HERS Rater.	1			No CALGreen Reference		No CALGreen Reference	EA3	1	Case 2, option 2, 3rd party Utility reporting=1pt.
J8. ENERGY STAR for Homes	Build the dwelling to outperform energy efficiency requirements as follows: • 2008 Title 24 projects: exceed energy code by ≤ 15%; two Energy points will be awarded for every 1% achieved over 15%. • 2013 Title 24 projects: exceed energy code by ≤ X%; Y Energy points will be awarded for every 1% achieved over X%. (X and Y to be determined on or before 7/1/2014) Version 3 of ENERGY STAR requires at least 15% better performance than the current energy code for energy efficiency performance, and completion of the HVAC, Water Management, and Thermal Enclosure checklist by appropriate professionals. For multifamily high rise pilot projects, the project must exceed the current code by 15% and also provide incremental cost of measure upgrades, commit to providing utility bill data for two years after completion of the project, and meet version 1.1 (June 2009) of the ENERGY STAR® Multifamily High Rise Program Minimum Performance Standards (MPS). The MPS are national guidelines; they are achieved by meeting California's T-24 requirements as well as the mandatory requirements.	1			No CALGreen Reference		No CALGreen Reference	EA1.1	prereq	Homes: EnergyStar v3 prereq Midrise: Partially applies

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
J9. EPA Indoor airPlus Certification	Implement all of the following individual measures that make up the Indoor airPLUS requirements: <ul style="list-style-type: none"> • Measure A5, "Construction Environmental Quality Management Plan Including Flush-Out" • Measure B2, "Radon-Resistant Construction" • Measure B3, "Foundation Drainage System" • Measure B4, "Moisture Controlled Crawlspace" • Measure D9.1, "Detached Garage" or D9.2, "Mitigation Strategies for Attached Garage" • Measure D11, "Moisture-Resistant Materials in Wet Areas" • Measure E2, "Flashing Installation Third-Party Verified" • Measure G1.1, "Insulated Hot Water Pipes" • Measure H1.1, "Sealed Combustion Furnace" • Measure H1.2, "Sealed Combustion Water Heater" • Measure H3.1, "Duct Mastic on Duct Joints and Seams" • Measure H6.1, "Meet ASHRAE 62.2-2012 Ventilation Residential Standards" • Measure H8, "No Fireplace or Sealed Gas Fireplace" (single family only) • Measure J1, "Third-Party Verification of Quality of Insulation Installation" • Measure J7, "Participation in Utility Program with Third-Party Plan Review" • Measure J10, "Blower Door Testing" (single family only) • Measure K5.1, "Doors" • Measure K5.2, "Cabinets and Countertops" • Measure K5.3, "Interior Trim and Shelving" • Measure L2, "Low-Emitting Flooring Meets CDPH 2010 Standard Method—Residential" • Measure O1, "GreenPoint Rated Checklist in Blueprints" • Measure O3, "Orientation and Training to Occupants—Conduct Educational Walkthroughs" 	1		No CALGreen Reference		No CALGreen Reference	EQp1, EQp2, EQp3, EQp4, EQp6, EQc2, EQc5, EQc6,	5 prereqs, 2.5 points	EPA Indoor airPlus Certification automatically qualifies the project for these prereqs and gains 2.5 points (additional points available in the listed credits)
J10. Blower Door Testing	Perform a blower door test to measure CFM50 and estimate the interior air changes per hour (ACH) for the dwelling. Points are achieved based on the test results as follows: <ul style="list-style-type: none"> • 3.5 ACH50—One IAQ/Health point • From 2.5 ACH50 for unbalanced systems (supply or exhaust) or 1.0 to 2.0 ACH50 for balanced systems—Two IAQ/Health points 	2		No CALGreen Reference		No CALGreen Reference	EAc1.1, EAc4	0.5-1	EnergyStar for Homes Version 3 required EQc4 requires 0.15cfm @ 50ACH EAc7 covers whole building blower door testing
K. FINISHES									
K1. Entryways Designed to Reduce Tracked-In Contaminants									
K1.1 Individual Entryways	Design and build a deliberate and obvious hard surface area at the home's main entrance. This area must offer room for occupants and visitors to comfortably take off and, in a permanently installed overtly obvious assembly, store their shoes. A permanently installed bench or shelf with shoe storage on the porch meets this measure. Coat closets do not qualify for this measure. A bench and permanent walk-off mat or grille are recommended, but not required. For the purposes of this measure, carpet in entryways is prohibited.	1		No CALGreen Reference		No CALGreen Reference	MRp2, EQc2	prereq, 0.5-1.5	Use water-resistant flooring, in entryways within 3 feet of exterior door accessible from ground; walk off mat 0.5pt, and/or shoe storage 0.5 pt.
K1.2 Building Entryways	Install a deliberate and obvious hard surface area at every main entrance to the building(s). A built-in, permanent walk-off mat or grill (for a minimum of six feet of continuous travel) should be provided at the entrance to the building(s).	1					MRp2	prereq	Use water-resistant flooring, in entryways within 3 feet of exterior door accessible from ground.
K2. Zero-VOC Interior Wall and Ceiling Paints	Use zero-VOC interior wall and ceiling paints. The paints and primers must emit less than 5 g/L VOCs regardless of sheen.	2	4.504.2.2, 4.504.2.4	Code only		Code Only	EQc7	0.5	CA Section 01350
K3. Low-VOC Caulks and Adhesives	Use low-VOC caulks and adhesives that emit 30 g/L VOCs or less. Products covered by this measure include subfloor adhesive, general construction adhesive, carpet adhesive, duct mastic, window and trim caulk, general use caulk, bathroom and kitchen caulk, tile mastic, and fire and acoustic caulk.	1	4.504.2.1, 4.504.2.4	Code only		Code Only	EQc7	0.5	CA Section 01350

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
K4. Environmentally Preferable Materials for Interior Finish			NA - see below				NA - See below		
K4.1 Cabinets	Use environmentally preferable materials that meet one of the following: • FSC-certified wood material. • Reclaimed or refinished materials. • Rapidly renewable materials, with a cycle of 10 years or less. • Materials with > 50% post-consumer recycled content. • Finger-jointed materials. • Locally sourced and fabricated material.	2	A4.405.3, A4.405.4	A4.405.3 Tier 1 Reqt: Not less than 10% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	A4.405.3, A4.405.4	A4.405.3 Tier 2 Reqt: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	EQc7	1	Low formaldehyde composite wood - One point available for all categories combined: Composite wood products must be constructed from materials documented to have low formaldehyde emissions that meet the California Air Resources Board requirements for ultra-low-emitting formaldehyde (ULEF) resins or no-added formaldehyde based resins. (1 pt)
K4.2 Interior Trim	Use cabinet materials that meet one of the defined attributes. Points are allocated based on the percentage of the square footage of all cabinet materials that meet one defined attribute, as follows: One Resources point: 50% Two Resources points: 80% This measure includes materials used in the box, face, frame, toe kick, shelves, and door; it does not include countertop or countertop substrate.	2	A4.405.3, A4.405.4	A4.405.3 Tier 1 Reqt: Not less than 10% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	A4.405.3, A4.405.4	A4.405.3 Tier 2 Reqt: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	EQc7	see above	see above
K4.3 Shelving	Use interior trim that meets one of the defined attributes. Points are allocated based on the percentage of the total square footage or linear length of the trim/casing that meets one defined attribute, as follows: One Resources point: 50% Two Resources points: 80%	2	A4.405.3, A4.405.4	A4.405.3 Tier 1 Reqt: Not less than 10% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	A4.405.3, A4.405.4	A4.405.3 Tier 2 Reqt: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	EQc7	see above	see above
K4.4 Doors	Use shelving, support structure, and encasement that meet one of the defined attributes. Points are allocated based on the percentage of the total square foot area or linear length of the material that meets one defined attribute, as follows: One Resources point: 50% Two Resources points: 80% Steel or aluminum wire shelving does not qualify.	2	A4.405.3, A4.405.4	A4.405.3 Tier 1 Reqt: Not less than 10% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	A4.405.3, A4.405.4	A4.405.3 Tier 2 Reqt: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	EQc7	see above	see above
K4.5 Countertops	Use doors and frames that meet one of the defined attributes. Points are allocated based on percentage of board feet (to account for varying door thickness) that meets one defined attribute, as follows: One Resources point: 50% Two Resources points: 80% Trim and hardware are not included in this measure. Steel doors do not qualify as recycled materials.	1	A4.405.3, A4.405.4	A4.405.3 Tier 1 Reqt: Not less than 10% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	A4.405.3, A4.405.4	A4.405.3 Tier 2 Reqt: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	EQc7	see above	see above
K5. Formaldehyde Emissions in Interior Finish Exceed CARB			Use composite wood products in the given areas that meet the CARB No Added Formaldehyde (NAF) Threshold. Eligible products include hardwood plywood, particleboard, MDF, and thin MDF (thickness ≤ 8 mm), as well as all furniture and other finished products made with composite wood products. Reduced formaldehyde materials as defined by the code are required by CALGreen Chapter 4, Section 4.504.5. The GreenPoint Rated measure and the CARB standard are more stringent than the CALGreen measure, as the CALGreen measure only addresses hardwood plywood, particle board, and MDF. The CALGreen measure does not include furniture or other finished products made of composite wood.						
K5.1 Doors	Use material that meets one defined attribute for at least 50% of the total square footage or volume of qualifying countertops and substrate assembly.	1	4.504.5, A4.504.1	A4.504.1 Use composite wood products made with either California Air Resources Board approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.	4.504.5, A4.504.1	A4.504.1 Use composite wood products made with either California Air Resources Board approved no-added formaldehyde (NAF) resins or ultra-low emitting formaldehyde (ULEF) resins.	EQc7	see above	see above
K5.2 Cabinets and Countertops	Use products with no added formaldehyde.	2	4.504.5, A4.504.1	See above	4.504.5, A4.504.1	See above	EQc7	see above	see above
K5.3 Interior Trim and Shelving	Use products with no added formaldehyde.	2	4.504.5, A4.504.1	See above	4.504.5, A4.504.1	See above	EQc7	see above	see above
K6. Products That Comply With the Health Product Declaration Open Standard			No CALGreen Reference				No CALGreen Reference		
Use 10 products from 5 different manufacturers and 5 different product specification sections with one of the following: • A complete Health Product Declaration (HPD) that meets the HPD Full Disclosure of Known Hazards level • A cradle-to-cradle (C2C) v2 Basic level or C2C v3 Bronze level certification with a hazard/optimization report card			2				ID 1 No LEED credit reference, Innovation credit from LEED-NC		

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
K7. Indoor Air Formaldehyde Level Less Than 27 Parts Per Billion	Complete one of the following: <ul style="list-style-type: none"> • After finish materials are installed, conduct a five- to seven-day home test using a passive formaldehyde test kit (following all test instructions), and receive results of less than 27 parts per billion. • Conduct a test using an equivalent testing method, such as sorbent or impinger. Either the Rater or the builder may complete the test.	2		No CALGreen Reference		No CALGreen Reference	EQc2	1	Option 4: Air Testing
K8. Comprehensive Inclusion of Low Emitting Finishes	Achieve the maximum points possible for all measures related to use of low-emitting materials for paints, interior finishes and flooring. The individual measures required to fulfill this measure are: -- Measure K2, "Zero-VOC Interior Wall and Ceiling Paints" -- Measure K3, "Low-VOC Caulks and Adhesives" -- Measure K4, "Environmentally Preferable Materials for Interior Finish" -- Measure K4.1, "Cabinets" -- Measure K4.2, "Interior Trim" -- Measure K4.3, "Shelving" -- Measure K4.4, "Doors" -- Measure K4.5, "Countertops" • Measure L2, "Low-Emitting Flooring Meets CDPH 2010 Standard Method—Residential"	1	4.504.2	Code compliance	4.504.2	Code compliance	EQc7	1	Low formaldehyde composite wood (see above)
K9. Durable Cabinets	Build durable cabinets with the following minimum standards: <ul style="list-style-type: none"> • All casework is built with plywood and assembled with adhesives and screws. • Doors are hardwood or plywood. • Full extension drawer slides have ball bearings. • Cabinet joints are dovetail, mortise and tenon, or other methods substantially beyond typical construction. • Hinges are metal and attach in two directions to doors and to the face frame. 	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
K10. At Least 25% of Interior Furniture Has Environmentally Preferable Attributes	Ensure that, in aggregate, at least 25% (estimated by volume) of interior furniture in all non-residential areas (hallways, lobby, offices, maintenance room, recreation rooms, etc.) have one or more of the following attributes: <ul style="list-style-type: none"> • Reclaimed, refurbished, rapidly renewable, or made from a minimum of 25% post-consumer recycled-content materials (post-industrial recycled content equals half the rate of post-consumer recycled content) • Sourced and fabricated locally (within 500 miles) • Made with FSC-certified wood or FSC-certified composite wood • Cradle-To-Cradle certified 	1	A4.405.3, A4.405.4	A4.405.3 Tier 1 Req: Not less than 10% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	A4.405.3, A4.405.4	A4.405.3 Tier 2 Req: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	-		No LEED credit reference
L. FLOORING									
L1. Environmentally Preferable Flooring	Comply with one or more of the following: <ul style="list-style-type: none"> • Use FSC-certified wood material. • Use reclaimed or refurbished flooring materials. • Use rapidly renewable flooring materials with a renewal cycle of ten years or less. • Use flooring materials with a minimum of 10% post-consumer recycled content or 20% post-industrial recycled content. • Use exposed concrete as the finished floor. • Use locally sourced and fabricated materials. To achieve each point value, the materials must be used in at least the following amount of the floor area: One point: ≥ 25% of the floor area Two points: ≥ 50% of the floor area Three points: ≥ 75% of the floor area Any adhesives used in installing the flooring materials must meet the lower of these two benchmarks: <ul style="list-style-type: none"> • Volatile organic compounds(VOCs) less than 70 g/L • The appropriate VOC standard for the specific product, according to the SCAQMD Rule 1168. 	3	A4.405.2, A4.405.3, A4.405.4	A4.405.3 Tier 1 Req: Not less than 10% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	A4.405.2, A4.405.3, A4.405.4	A4.405.3 Tier 2 Req: Not less than 15% of Total Material Cost of project to be recycled content, A4.405.4 Use of building materials from rapidly renewable sources.	Mrc7	1	CA Section 01350. Environmentally Preferable Products: Use products that meet one or more of the criteria (0.5 pt each)

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
L2. Low-Emitting Flooring Meets CDPH 2010 Standard Method—Residential	Use qualifying flooring materials in at least the following amount of the floor area: One IAQ/Health point: ≥ 25% of the floor area Two IAQ/Health points: ≥ 50% of the floor area Three IAQ/Health points: ≥ 75% of the floor area If the flooring material is carpet, the carpet must meet CRI Green Label plus and the carpet pad must also meet CRI Green label. Any adhesives used in installing the flooring materials must meet the appropriate VOC standard for the specific product, according to SCAQMD Rule 1168 (2005 amendments version) standards Even if it is not certified via testing, hardwood flooring, tile, and exposed concrete floor meets the intent of this measure as long as the finish (i.e., tile or concrete sealer, wax, etc.) does not exceed the appropriate VOC standard for the specific product, according to SCAQMD Rule 1168 (2005 amendments version) standards.	3	A4.405.2, 4.504.3, 4.504.4	A4.504.2 Tier 1 Req: 90% of total resilient flooring area must comply with CDPH 2010 Standard or others specified	A4.405.2, 4.504.3, 4.504.4	A4.504.2 Tier 2 Req: 100% of total resilient flooring area must comply with CDPH 2010 Standard or others specified. Exception for Tier 2: An allowance for up to 5-percent specialty purpose flooring may be permitted.	EQc7	1	CA Section 01350
L3. Durable Flooring	Ensure that all flooring in the home is hard surface.	1		No CALGreen Reference		No CALGreen Reference	MRc1		See Durability checklist for flooring at entrances.
L4. Thermal Mass Flooring	Use thermal mass flooring for at least 50% of the home's floor area, in square feet. The thermal mass assemblies must be at least one inch thick. Qualifying assemblies include concrete or concrete/gypsum slab, cementitious backerboard, thin set, tile, or stone.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
M. APPLIANCES AND LIGHTING									
M1. ENERGY STAR® Dishwasher	Install a dishwasher that meets or exceeds the ENERGY STAR® standards adopted on January 20, 2012. If the standards change during the GreenPoint Rated cycle, the dishwasher must meet the ENERGY STAR standards current at the time of purchase and installation.	1	A4.303.3	Install at least one qualified ENERGY STAR appliance with maximum water use as follows:	A4.303.3	Install at least one qualified ENERGY STAR appliance with maximum water use as follows:	EAp1 Item 2, EAc14	.5	Must meet EnergyStar Minimum Energy Factor and Water Factor criteria
M2. CEE-Rated Clothes Washer	Install a Tier 2 or Tier 3 qualified clothes washer from the Consortium for Energy Efficiency (CEE) list. Points awarded as follows: One Energy point and one Water point: CEE Tier 2 One Energy point and two Water points: CEE Tier 3 The clothes washer must match these standards at the time of installation in the home. If the standards change during the GreenPoint Rated cycle, the clothes washer must meet the CEE Tier standards current at the time of installation.	3	A4.303.3	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.	A4.303.3	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.	EAp1 Item 2		EnergyStar
M3. Size-Efficient ENERGY STAR Refrigerator	Install an ENERGY STAR certified refrigerator with the following capacity: One Energy point: Less than 25 cubic feet Two Energy points: Less than 20 cubic feet	2		No CALGreen Reference		No CALGreen Reference	EAp1 Item 2, EAc14	1	EnergyStar Only, No size restrictions
M4. Permanent Centers for Waste Reduction Strategies									
M4.1 Built-In Recycling Center	Install an assembly with a minimum of two bins (one for trash and one for recycling). The assembly must be built into the kitchen cabinets. Separately located bins or in the garage or utility room do not qualify.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
M4.2 Built-In Composting Center	Install a compost bin with a built-in lid. The bin must be built into the kitchen's base cabinets. The bin must be odor-resistant and protected from pests. Temporary countertop compost bins, standalone outdoor compost bins, and city food scrap or green waste bins do not qualify.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
M5. Lighting Efficiency									
M5.1 High-Efficacy Lighting	Install high-efficacy lighting for all permanently installed luminaries in the dwelling and in all common areas of a multifamily dwelling. Lighting controls cannot be used to meet this measure.	2	A4.203.1.1.3, A4.204.1.1.1	GPR requirements more comprehensive	A4.203.1.1.3	GPR requirements more comprehensive	EAc1.3 (Lighting)	0.5-1.5	(Prescriptive path) Credit given for reducing lighting power density to below 0.72 W/sf, 0.6, or 0.48. Achieved through installing high-efficacy lighting and reducing total number of fixtures in building
M5.2 Lighting System Designed to IESNA Foot-candle Standards or Designed by Lighting Consultant	Complete one of the following: • Install a lighting system that is layered to deliver appropriate ambient, task, and accent lighting that meets the needs of each space in the home. • Hire a certified lighting consultant to design the lighting system to eliminate excess lighting and control glare.	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
M6. Central Laundry (for Multifamily program only)	Provide clothes washers and dryers for resident use in common area(s).	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
M7. Gearless Elevator	Use gearless (or gearless traction) elevators instead of hydraulic or geared traction systems in all locations.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N. COMMUNITY									
N1. Smart Development									
N1.1 Infill Site	Ensure that the project meets all of the following requirements: • Sanitary sewer line extensions and electric/gas utility connections are 1,000 feet or less from any point of the property line or the tract being developed, or are already in place on site. • The development is located on an infill site.	2	A4.103.1		A4.103.1		LT2.2a, LT2.3	4+2=6	Prev. developed, infill site
N1.2 Designated Brownfield Site	Ensure that part or all of the site to be built upon meets one of the following conditions: • The site is documented as contaminated. • The site is defined as a brownfield by a local, state, or federal government agency. • The site is designated a redevelopment area by the local jurisdiction. The site contamination must be remediated such that the controlling public authority approves the protective measures and/or cleanup as effective, safe, and appropriate for the future use of the site. Grayfields or previously developed sites do not qualify.	2	A4.103.1	Site must comply as at least one: 1. Infill 2. Greyfield 3. EPA-recognized Brownfield. Greyfield accepted under Cal green, not under GPR. GPR allows other definitions of Brownfield beyond EPA Designation.	A4.103.1	Site must comply as at least one: 1. Infill 2. Greyfield 3. EPA-recognized Brownfield. Greyfield accepted under Cal green, not under GPR. GPR allows other definitions of Brownfield beyond EPA Designation.	-		No LEED credit reference
N1.3 Conserve Resources by Increasing Density	Points available based on the density (number of units divided by total project acreage). Single-family: 1 point for 15, 2 for 20, 3 for 25, 4 for ≥ 30. Multifamily: 1 for 20, 2 for 25, 3 for 30 and 4 for ≥ 35.	4		No CALGreen Reference		No CALGreen Reference	LT3	1-3	Midrise: 30 Dwelling Units/ Acre (DUA) = 1 55 DUA=2 points, 80 DUA = 3points Homes: 7 DUA =1 pt, 12 DUA = 2, 20 DUA = 3
N1.4 Cluster Homes for Land Preservation	Ensure that the development has designated open space that has one of the following: • Exclusive use by residents (such as private trails and passive recreational areas) • Limited public low-impact recreational use (no golf courses) • Preservation of agricultural land, or protection of wildlife habitat, where provisions have been made to prevent future development of the space	2		No CALGreen Reference		No CALGreen Reference			No LEED credit reference
N1.5 Home Size Efficiency	Up to nine points available for constraining home size per number of bedrooms. See chart on page 168 of guide.	9		No CALGreen Reference		No CALGreen Reference	EAp4, EAc1	prereq	Earn 1 EA point for every 4% decrease in conditioned floor area compared with ENERGY STAR for Homes v3 reference home; Or lose 1 EA point for every 4% increase in CFA compared to reference home
N2. Home(s)/Development Located Within 1/2 Mile of a Major Transit Stop	Locate the dwelling(s) or development within ½ mile (public, safe pedestrian path) of a major transit stop. A major transit stop is defined as a light rail, subway, passenger rail, or ferry stop, or at least two existing or planned (and funded) bus lines, constituting 60 or more transit rides per weekday (i.e., combined bus, rail, and ferry) and 40 weekend trips (must be met on both Saturday and Sunday).	2		No CALGreen Reference		No CALGreen Reference	LT5	1-2	If # of daily transit trips equals 72 = 1 pt, 144 = 1.5 pts, 360 = 2 pts (also weekend reqs and rail option)
N3. Pedestrian and Bicycle Access									
N3.1 Pedestrian Access to Services Within 1/2 Mile of Community Services	Five service credits equal a Community Point. Services that earn one credit each: day care, community center, public park, drug store, restaurant, school, library, farmers' market, after school program and convenience store with fresh meat and produce. Those earning .5 each: bank, place of worship, laundry/cleaners, hardware, theater/entertainment, fitness/gym, post office, senior care facility, medical/dental, hair care, commercial office or major employer and full scale supermarket. Up to two of each type of service can be counted.	2	A4.103.2	Facilitate community connectivity by one of the following methods: 4 services within 1/4 mile or 7 services within 1/2 mile	A4.103.2	Facilitate community connectivity by one of the following methods: 4 services within 1/4 mile or 7 services within 1/2 mile	LT4	1-2	4-7 services = 1 pt, 8-11 = 1.5 pts, ≥12= 2 pts (other credit reqs)
N3.2 Connection to Pedestrian Pathways	Locate and/or design the project so that either a publicly accessible outdoor recreation facility at least one acre in area or a publicly accessible indoor recreational facility of at least 25,000 square feet lies within a ¼ mile walking distance of 90% of new and existing dwelling units and nonresidential building entrances, and is connected to the units and entrances by a dedicated pedestrian pathway or bike path. Outdoor recreation facilities must consist of physical improvements, and may include a usable public park, "tot lots," swimming pools, and sports fields.	1		No CALGreen Reference		No CALGreen Reference	LT2.5	1	Option 4: Street network that has at least 90 intersections per square mile. Option 5: Bicycle network connects to at least one of the following (within 3 miles): 10+ uses, a school or employment center, transportation stops. Plus Bicycle Storage (see below)

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)			
N3.3 Traffic Calming Strategies	Installed at least 2 within ¼ mile of the dwelling and evaluated for effectiveness: <ul style="list-style-type: none"> • Designated bicycle lanes on roadways • Single travel lanes that are a maximum of ten feet wide • Street crossings located less than 300 feet apart • Rumble strips, bulb-outs, raised crosswalks, or refuge islands on streets • Posted speed limits of 20 mph or less 	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
N3.4 Sidewalks Buffered from Roadways and 5-8 Feet Wide	Ensure that all sidewalks have a clear path of travel that is at least five feet wide. Sidewalks in retail areas must be at least eight feet wide. All sidewalks must be buffered from roadways with a protection zone, such as a railing, landscaping, etc. Rows of trees or other fragmented landscaping are acceptable if they are installed such that pedestrians are physically, psychologically, or visually discouraged from traveling directly adjacent to roadways.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
N3.5 Bicycle Storage for Residents	Install easily accessible, covered, and secure bicycle storage for at least 15% of the total number of residents. The storage area must either allow users to lock bicycles to a rack or be a lockable enclosure or indoor area. Bicycle storage within units does not count toward this measure unless there is a clearly identifiable, designated, dedicated space for bicycle storage.	1	A4.106.9.1	Long Term: At least one spot for every two dwelling units (GPR 15% of all residents)	A4.106.9.1	Long Term: At least one spot for every two dwelling units (GPR 15% of all residents)	LT2.6	1	Option 5: Bicycle storage: long term storage equal to 30% of all building occupants but no fewer than one per residential unit within 100 ft of primary entry. Plus bicycle network (see LTc4 above)	
N3.6 Bicycle Storage for Non-Residents	Install easily accessible, covered, and secure storage for at least 5% of the maximum number of visitors and employees expected at one time during the day, or provide one secure storage area or facility for every 1,000 square feet of non-residential tenant floor area within the development.	1	A4.106.9.1	Short Term: Permanent racks within 100 feet of visitors entrance, 5% visitor parking, minimum of 1 two bike capacity rack.	A4.106.9.1	Short Term: Permanent racks within 100 feet of visitors entrance, 5% visitor parking, minimum of 1 two bike capacity rack.	LT2.6	see above	Option 5: Bicycle storage: short-term equal to 2.5% of all building occupants but no fewer than 4 per building unit within 100 ft of primary entry. Plus bicycle network (see LTc4 above)	
N3.7 Reduced Parking Capacity	Reduce the number of parking spaces per unit in order to encourage public transportation use and to dedicate more land and construction resources to site amenities such as open space, parks, community rooms, or housing units. Points are allocated based on the ratio of parking spaces to the number of residential units, as follows: One Community point: 1.5 parking spaces per unit Two Community points: 1 parking space per unit	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
N4. Outdoor Gathering Places										
N4.1 Public or Semi-Public Outdoor Gathering Places for Residents	Meet one of the following: For projects with less than 50 dwelling units per acre, the site must include, in aggregate, at least 50 square feet per home of usable outdoor gathering space. Applicable outdoor common areas include courtyards, sports facilities, play structures, turf areas, rooftop gardens, community gardens, or other outdoor spaces that encourage interaction and spontaneous gathering. For sites with 50 dwelling units per acre and between 25 and 50 square feet per unit of usable outdoor gathering space, the site must include natural elements as part of any gathering space.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	
N4.2 Public Outdoor Gathering Places with Direct Access to Tier 1 Community Services	Create a design with short pathways or adjacent designs that provide direct access between the project's outdoor gathering spaces and at least two Tier 1 community services. Tier 1 community services are defined in measure N3.1, "Pedestrian Access to Services Within ½ Mile of Community Services" on page 172. To qualify as "direct access," the design must feature a close, clear, welcoming, easily accessible, visual, and physical and psychological linkage and connection.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference	

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
N5. Social Interaction									
N5.1 Residence Entries with Views to Callers	Design entrances such that occupants of all heights (including children and people in wheelchairs) can view all visitors. Common practices to achieve this measure include the following: • Use clear sidelights or tall windows with low sill heights. • Use doors with integral clear windows. • Install one lower and one upper peephole, or equivalent features. The minimum viewing height for the lower peephole is 32 inches.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N5.2 Entrances Visible from Street and/or Other Front Doors	Install substantive, effective provisions for inhabitants to be able to regularly view activity at the front doors of their neighbors from their own front doors and windows in order to increase community safety and surveillance. Create a layout such that all home and main entrances to buildings are visible from the street and/or from other front doors.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N5.3 Porches Oriented to Street and Public Space	Orient porches to streets and public spaces to provide natural surveillance. To qualify for this measure, the porch must have at least 100 square feet of usable space and an inviting sitting area that is oriented to the street and public spaces.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N5.4 Social Gathering Space	Include (in aggregate) at least 50 square feet of usable outdoor gathering space per dwelling in the development. Applicable outdoor common areas include courtyards, sports facilities, play structures, turf areas, rooftop gardens, community gardens, or other outdoor spaces that encourage interaction and spontaneous gathering.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N6. Passive Solar Design									
N6.1 Heating Load	Implement at least four of the following strategies: • More north facing windows with a higher solar heat gain coefficient (SHGC) • Attic insulation with an R-value of at least R-44 • Orientation of windows and vary SHGC for different orientations • Having a tighter envelope • Using wall insulation with an R-value of more than R-15 for the cavity and R-4 for the exterior • Selecting windows for performance	2		No CALGreen Reference		No CALGreen Reference	EA6	3pts	Homes: can be earned for prescriptive path. Midrise: Performance path included in energy model
N6.2 Cooling Load	Implement at least four of the following strategies: • Lower SHGC value and u-factor on the west and south sides • Shading devices on windows that have excessive heat gain • Cool roof • Double roof • Radiant barrier • Attic insulation with an R-value of at least R-44 • Orientation of windows and varying SHGC for different orientations • Having a tighter envelope • Stack ventilation (skylight/window/monitoring)	2		No CALGreen Reference		No CALGreen Reference	EA6	3pts	Homes: can be earned for prescriptive path. Midrise: Performance path included in energy model
N7. Adaptable Building									
N7.1 Universal Design Principles in Units	Design homes to accommodate disabled persons and anyone's ease of mobility. • at least one prominent entrance has a zero-step clearance. • doors and hallways a minimum clear passage space • Interior doors must have lever handles. • Multiple installed features in each bathroom. For additional information, refer to CBC section 1143A for fully accessible bathroom specifications.	2		No CALGreen Reference		No CALGreen Reference	ID	1	Pre-approve pilot credit for universal design and adaptability
N7.2 Full-Function Independent Rental Unit	Include an independent rental unit in the project. At a minimum, an independent rental unit must be a fully functioning, rentable apartment with a full bathroom, kitchenette (refrigerator, sink, cooktop, and stove), closet, and a private entrance.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
N8. Affordability									
N8.1 Dedicated Units for Households Making 80% of AMI or Less	Dedicate a percentage of the units in the project to households making 80% of the Area Median Income (AMI) or less. Points will be awarded based on the percentage, as follows: One Community point: 25% of all units Two Community points: 50% or more of all units	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N8.2 Units with Multiple Bedrooms for Households Making 80% of AMI or Less	Ensure that at least 15% of the units dedicated for households making 80% of AMI or less have three or more bedrooms (minimum two units).	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N8.3 At Least 20% of Units at 120% AMI or Less are For Sale	Ensure that at least 20% of the total units that are allocated for 120% AMI or less are available for sale.	1		No CALGreen Reference		No CALGreen Reference			No LEED credit reference
N9. Mixed-Use Developments									
N9.1 Live/Work Units Include a Dedicated Commercial Entrance	Ensure that all live/work units include at least one dedicated entrance to the commercial zone that is not the entrance typically used for residential access.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N9.2 At Least 2% of Development Floor Space Supports Mixed Use	Ensure that at least 2% of conditioned development floor space supports mixed use (that is, non-residential tenants). This measure does not include live/work units.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
N9.3 Half of the Non-Residential Floor Space is Dedicated to Community Service	Ensure that at least half of the conditioned commercial floor space supports mixed use (non-residential) tenants, and includes services that would commonly be used by residents of the development and by neighbors. Specific tenancy requirements are listed in the Rating Manual.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
O. OTHER									
O1. GreenPoint Rated Checklist in Blueprints	The GreenPoint Rated checklist must be incorporated (and updated) on the introductory pages of the blueprints or plans, with all applicable measures checked off.	R		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
O2. Pre-Construction Kickoff Meeting with Rater and Subcontractors	Hold a preconstruction kickoff meeting before construction begins. To help ensure that the project's green building and certification goals will be met, make sure each team member's scope of work and contract specifically reflect their roles and responsibilities.	2		No CALGreen Reference		No CALGreen Reference	Inp1, ID1.3	prereq, 1	Preliminary Rating - conduct a meeting as early as possible with project team and verification team. Option 1: Integrative project team (1 pt) Option 2: Design Charrette (1 pt) Option 3: 8 hours Trades training (1 pt)
O3. Orientation and Training to Occupants—Conduct Educational Walkthroughs	Ensure that the builder or developer provides two hours of green operations training, including a minimum one-hour walkthrough of the home.	2	4.410.01	GPR requires training specifically on green measures	4.410.01	GPR requires training specifically on green measures	EA1.3	prereq	also see credit criteria list
O4. Builder's or Developer's Management Staff are Certified Green Building Professionals	Ensure that at least one member from the upper management levels from certain departments are current Certified Green Building Professionals (or have other equivalent certifications).	2	A4.104.1	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. Points for project members trained in green building. (GPR - CGBP specifically required)	A4.104.1	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. Points for project members trained in green building. (GPR - CGBP specifically required)	-		LEED requirements focus on LEED APs
O5. Home System Monitors	Install at least one semi-permanent whole-house energy/water/gas monitor inside the home. Most of these systems incorporate current transducers connected to the home's main electrical panel. Acceptable types of monitors include the following: • Price signal devices • Price and energy and/or water use screen-based countertop or wall-mount devices • Whole-home automation systems with energy and/or water information	2		No CALGreen Reference		No CALGreen Reference	EA3	1	Case 2 option 1 1 hr. interval monitoring
O6. Green Building Education									
O6.1 Marketing Green Building	Promote and market green building features through at least three media (such as newspapers, billboards, brochures, websites, on-site signage, home tours, etc.). The promotion must effectively educate the public on a wide scale by having substantial exposure on the general and detailed issues of green building.	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
O6.2 Green Building Signage	Include permanent and informative signage in the building that highlights the project's green features. A prominent display must be located in the lobby (or other public high-use area) and must include the GreenPoint Rated Certificate of Evaluation. The GreenPoint Checklist for the specific project must be overtly available for reference.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)			2013 CALGreen code				LEED for Homes (Version 4)		
O7. Green Appraisal Addendum	Complete the Residential Green and Energy Efficient Addendum for each dwelling that is being certified. The form should be submitted to the homeowner, or the developer/builder if the homeowner is not known.	R		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
O8. Detailed Durability Plan and Third-Party Verification of Plan Implementation	<ul style="list-style-type: none"> Complete an organized, professional durability evaluation using (at a minimum) the nine risk area categories listed in the Description section of this measure. Develop strategies, designs, and construction procedures/details, to respond to all identified issues. Incorporate the strategies and indicate them overtly in the project documentation. 	1		No CALGreen Reference		No CALGreen Reference	MRp2, MRc1	prereq, 1	Moisture durability only, ENERGY STAR for Homes, version 3, water management system builder checklist
O9. Residents Are Offered Free or Discounted Transit Passes	Provide heavily discounted (50% or greater) or free transit passes to all residents for a minimum of one year's time for transit options that are most valuable to residents.	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
O10. Vandalism Deterrence Practices and Vandalism Management Plan	Use durable and vandal-resistant materials to inhibit graffiti and other willful or random property damage, and create a deliberate vandalism plan and policy in place.	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
P. DESIGN CONSIDERATIONS									
P1. Acoustics: Noise and Vibration Control	5 service credits: ½ Community and ½ IAQ/Health point 10 service credits: 1 Community and 1 IAQ/Health point								
Enter the number of Tier 1 practices (1 service credit each)	<ul style="list-style-type: none"> Exterior Noise Reduction. Loud Single-Event Noise Reduction in Noise-Sensitive Locations. Airborne and Structure-Borne Noise Reduction. Mechanical Ventilation Noise and Vibration Control. Plumbing Noise and Vibration Reduction. 	2		No CALGreen Reference		No CALGreen Reference	EAp1	prereq	Ventilation noise only
Enter the number of Tier 2 practices (1/2 service credit each)	<ul style="list-style-type: none"> Stair Impact Noise Reduction. Floor Squeak Minimization. Trash Chute Noise Minimization. Mixed Use Noise and Vibration Reduction. 								
P2. Mixed-Use Design Strategies									
P2.1 Tenant Improvement Requirements for Build-Outs	Provide tenants with design and construction information in a Green Tenant Guideline (GTG) that provides a description of the sustainable strategies, products, materials, and services incorporated in the project and delineates the project intent with respect to sustainability goals and objectives for commercial tenant spaces.	2		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
P2.2 Commercial Loading Area Separated for Residential Area	<ul style="list-style-type: none"> Parking and loading for residential uses should be obviously separated from delivery parking and loading. Mechanical systems, entrances, hours of operation, and lighting must be designed to reduce impact on tenants in noise, vibration, odor, etc. Separation of waste and recycling facilities and waste pickup on site between residential and commercial uses. If a single waste and recycling center is provided, it should be in the commercial area of the project in order to screen the noise and smell of waste collection activities from residents. 	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference
P2.3 Separate Mechanical and Plumbing Systems	<ul style="list-style-type: none"> Improved insulation between uses in demising walls. Separate residential and commercial metering for all utilities. Properly separate commercial and residential drain, waste, HVAC, and vent systems. 	1		No CALGreen Reference		No CALGreen Reference	-		No LEED credit reference

Detailed Comparison of Residential Green Building Rating Systems and CALGreen Code in 2014

GreenPoint Rated SF and MF (Version 6.0)	2013 CALGreen code				LEED for Homes (Version 4)			
P3. Commissioning	Multi-family projects only. For GreenPoint Rated, complete commissioning activities in the design, construction, and warranty phases of the project as listed below related to the following systems: <ul style="list-style-type: none"> • HVAC • Plumbing systems • Lighting, daylighting, and controls • Building system controls • Irrigation systems • Renewable energy systems • Auxiliary/backup power systems 							
P3.1 Design Phase	The commissioning coordinator assists in identifying the goals of the project and the establishment of the Owner's Project Requirements (OPR) and the Basis of Design (BoD). A commissioning plan is developed and identify the goals of the commissioning procedure. The commissioning coordinator conducts reviews of plans and equipment submittals, identifies confusing or conflicting issues, and reviews all commissioning goals with all involved parties.	2		No CALGreen Reference	No CALGreen Reference	EA1.1	*prereq	Homes: NA Midrise: only for central HVAC systems
P3.2 Construction Phase	The commissioning coordinator continues to review product and installation submittals and provides an ongoing issues log that can be shared and commented upon by the design team, contractors, and subcontractors. Practices to be completed by the commissioning coordinator for this measure include the following: <ul style="list-style-type: none"> • Obtain and review submittals. • Coordinate startup activities. • Monitor the testing and balancing measures completed and reviewed. • Coordinate functional testing. 	2		No CALGreen Reference	No CALGreen Reference	EA1.1	*prereq	Homes: NA Midrise: only for central HVAC systems
P3.3 Post-Construction Phase	The commissioning coordinator verifies compliance and confirms that all issues identified during the commissioning process have been resolved. Practices to be completed by the commissioning coordinator for this measure include the following: <ul style="list-style-type: none"> • Provide training criteria and confirm completion. • Submit commissioning report. • Conduct warranty review. • Make provisions to survey residents and tenants after eight to ten months of occupancy, and report findings. 	2		No CALGreen Reference	No CALGreen Reference	EA1.1	*prereq	Homes: NA Midrise: only for central HVAC systems
P4. Building Enclosure Testing	Complete the following: <ul style="list-style-type: none"> • Include building enclosure, flashing, and material installation details in plans and specifications. • Complete field testing of the building enclosure to verify performance for air infiltration and water management. 	3		No CALGreen Reference	No CALGreen Reference	Innovation	1	Potentially an Innovation credit
Total Points Possible		300						