

CALGreen VERIFICATION GUIDELINES MANDATORY, TIER 1 & 2 CHECKLIST

Application:

This checklist (developed by the BSC) includes CALGreen Mandatory, Tier 1, and Tier 2 measures and shall be used for non-residential projects that meet the following:

- New construction or building additions of 1,000 sq. ft. or greater
- Building alterations with a permit valuation of \$200,000 or more.

Instructions:

All Projects

1. Add a “Y” to all Mandatory measures that are achieved and provide a reference to a drawing sheet or specification section to demonstrate compliance in the Reference column.
2. Add a “N” if a Mandatory measure is not achieved and provide explanation in the Reference column.
3. Add an “O” if a Mandatory measure is not applicable and provide explanation in the Reference column.
4. Complete Documentation Author's/Responsible Designer's Declaration Statement (with signature) at end of document.
5. Include the CalGreen Verification Guidelines Mandatory, Tier 1 & 2 Checklist in the Construction Documents.

Projects targeting Tier 1 or Tier 2 (not required at SFO)

Note: All applicable Mandatory measures in chapter 5 shall be met prior to applying Tier 1 & 2 voluntary measures.

1. Add a “Y” to all Tier 1 or 2 prerequisite measures that are achieved and provide a reference to a drawing sheet or specification section to demonstrate compliance in the Reference column.
2. Add a “1” for all elective measures that are achieved and provide a reference to a drawing sheet or specification section to demonstrate compliance in the Reference column.
3. If all Tier 1 or 2 prerequisites are achieved, count the total number of electives and insert total number at the end of the checklist.

Key:

Y = Yes (mandatory measure and/or Tier 1 or 2 prerequisite has been achieved)

N = No (mandatory measure has not been achieved)

O = Other (not applicable)

1 = Tier 1 or 2 elective measure has been achieved

CHAPTER 5 DIVISIONS		SECTION TITLE	CODE SECTION	Y/1	N	O	REFERENCE (DWG SHEET / SPEC)
DIVISION 5.1 Planning and Design	Mandatory	Storm water pollution prevention for projects that disturb less than 1 acre of land	5.106.1 - 5.106.2	Y	N	O	
	Mandatory	Short-term bicycle parking	5.106.4.1.1				
	Mandatory	Long-term bicycle parking	5.106.4.1.2				
	Mandatory	Designated Parking For Clean Air Vehicles	5.106.5.2				
	Tier 1 Prerequisite	Designated parking—10% of parking capacity w/ parking stall markings and stall identification	A5.106.5.1, A5.106.5.1.1, A5.106.5.1.3, A5.106.5.1.4				
	Tier 2 Prerequisite	Designated parking—10% of parking capacity w/ parking stall markings and stall identification	A5.106.5.1, A5.106.5.1.2, A5.106.5.1.3, A5.106.5.1.4				
	Mandatory	Parking stall marking	5.106.5.2.1				
	Mandatory	Single (EV) Charging space requirements	5.106.5.3.1				
	Mandatory	Multiple (EV) Charging space requirements	5.106.5.3.2				
	Tier 1 Prerequisite	Electric vehicle (EV) charging [N] w/ associated electrical panel identification and designated parking allowance	A5.106.5.3, A5.106.5.3.1, A5.106.5.3.3, A5.106.5.3.4				
	Tier 2 Prerequisite	Electric vehicle (EV) charging [N] w/ associated electrical panel identification and designated parking allowance	A5.106.5.3, A5.106.5.3.1, A5.106.5.3.3, A5.106.5.3.4				

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	Mandatory	EV charging space calculation [N] w/ exceptions	5.106.5.3.3				
	Mandatory	[N] Identification	5.106.5.3.4				
	Mandatory	[N] Future charging spaces	5.106.5.3.5				
	Mandatory	Light Pollution Reduction [N] (w/ exceptions and note)	5.106.8				
	Mandatory	Grading and Paving, (exception for Additions and Alterations not altering the drainage path)	5.106.10				
	Tier 1 Prerequisite	Cool Roof (T.A5.106.11.2.2): SRI 75 when < 2:12, SRI 16 when >2:12	A5.106.11.2				
	Tier 2 Prerequisite	Cool roof (A5.106.11.2.2): SRI 82 when < 2:12, SRI 27 when > 2:12	A5.106.11.2				
Electives: select one for Tier 1 or three for Tier 2:							
	Electives	Community Connectivity	A5.103.1				
	Electives	Brownfield or Greyfield site redevelopment or infill area development.	A5.103.2, A5.103.2.1				
	Electives	Reduce development footprint and optimize open space.	A5.104.1, A5.104.1.1, A5.104.1.2, A5.104.1.3				
	Electives	Disassemble and reuse existing building structure (75%) with exceptions	A5.105.1.1				
	Electives	Disassemble and reuse existing nonstructural elements (50%) with exceptions	A5.105.1.2				
	Electives	Salvage	A5.105.1.3				
	Electives	Storm Water Design	A5.106.2, A5.106.2.1, A5.106.2.2				
	Electives	Low Impact Development (LID)	A5.106.3, A5.106.3.1, A5.106.3.2				
	Electives	Changing rooms w/ note	A5.106.4.3				
	Electives	Parking capacity w/ reduced parking capacity option	A5.106.6, A5.106.6.1				
	Electives	Exterior wall shading w/ fenestration and/or opaque wall area option	A5.106.7, A5.106.7.1, A5.106.7.2				
	Electives	Heat island Effect	A5.106.11				
DIVISION 5.2 Energy Efficiency	Mandatory	Meet the minimum Energy Efficiency Standard	5.201.1				
	Tier 1 Prerequisite	Energy Performance Outdoor lighting power 90% of Part 6	A5.203.1.1.1				
	Tier 1 Prerequisite	If applicable, Service for water heating in restaurants 8,000 sf or greater	A5.203.1.1.2				
	Tier 1 Prerequisite	Energy Budget 95% or 90% of Part 6 calculated value of allowance	A5.203.1.2.1				
	Tier 2 Prerequisite	Energy Performance Outdoor lighting power 90% of Part 6	A5.203.1.1.1				
	Tier 2 Prerequisite	If applicable, Service for water heating in restaurants 8,000 sf or greater	A5.203.1.1.2				
	Tier 2 Prerequisite	Energy Budget 90% or 85% of Part 6 calculated value of allowance	A5.203.1.2.2				

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		Electives: select one for Tier 1 or three for Tier 2:						
	Elective	On-site renewable energy w/ documentation	A5.211.1 A5.211.1.1					
	Elective	Green power	A5.211.3					
	Elective	Elevators w/ car lights and fan	A5.212.1.1 A5.212.1.1.1					
	Elective	Escalators	A5.212.1.2					
	Elective	Controls that reduce energy	A5.212.1.4					
	Elective	Steel framing	A5.213.1					
DIVISION 5.3 Water Efficiency And Conservation	Mandatory	Separate Meters (new Buildings or additions > 50,000 SF that consume more than 100 gal/day)	5.303.1.1					
	Mandatory	Separate Meters (for tenants in new buildings or additions that consume more than 1,000 gal/day)	5.303.1.2					
	Tier 1 Prerequisite	Water Reduction Tier 1. 12% savings over the "water use baseline" Table A5.303.2.2 or Meet table A5.303.2.3.1	A5.303.2.3.1					
	Tier 2 Prerequisite	Water Reduction Tier 2. 20% or 25% savings over the "water use baseline" Table A5.303.2.2 or A5.303.2.3.3	A5.303.2.3.2 or A5.303.2.3.3					
	Mandatory	Water closets shall not exceed 1.28 gallons per flush	5.303.3.1					
	Mandatory	Wall-mounted urinals shall not exceed 0.125 gpf	5.303.3.2.1					
	Mandatory	Floor-mounted urinals shall not exceed 0.5 gpf	5.303.3.2.2					
	Mandatory	Single showerhead shall have maximum flow rate of 1.8 gpm (gallons per minute) at 80 psi	5.303.3.3.1					
	Mandatory	Multiple showerheads serving one shower shall have a combined flow rate of 1.8 gpm at 80 psi	5.303.3.3.2					
	Mandatory	Nonresidential lavatory faucets	5.303.3.4.1					
	Mandatory	Kitchen faucets	5.303.3.4.2					
	Mandatory	Wash fountains	5.303.3.4.3					
	Mandatory	Metering faucets	5.303.3.4.4					
	Mandatory	Metering faucets for wash fountains	5.303.3.4.5					
	Mandatory	Food waste disposers	5.303.4.1					
	Mandatory	Areas of additions and alterations	5.303.5					
	Mandatory	Standards for plumbing fixtures and fittings	5.303.6					
	Mandatory	Outdoor potable water use in landscape areas (with notes)	5.304.1					
	Mandatory	Outdoor water supply systems (with Exceptions 1-4)	5.305.1.1					
	Mandatory	Technical requirements for outdoor recycled water supply systems	5.305.1.2					
			Electives: select one for Tier 1 or three for Tier 2:					
		Elective	Nonpotable water systems for indoor use	A5.303.2.3.4				
		Elective	Appliances and fixtures for commercial application	A5.303.3				
	Elective	Nonwater supplied urinals	A5.303.4.1					
	Elective	Dual plumbing	A5.303.5					
	Elective	Outdoor potable water use	A5.304.2					
	Elective	Restoration of areas disturbed by construction	A5.304.6					
	Elective	Previously developed sites w/ exception	A5.304.7					
	Elective	Graywater irrigation system	A5.304.8					
	Elective	Nonpotable water systems	A5.305.1					
	Elective	Irrigation systems	A5.305.2					

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DIVISION 5.4 Material Conservation and Resource Efficiency	<i>Tier 1 Prerequisite</i>	<i>Recycled content for 10% of total material cost</i>	A5.405.4 A5.405.4.1 - A5.405.4.5				
	<i>Tier 2 Prerequisite</i>	<i>Recycled content for 15% of total material cost</i>	A5.405.4 A5.405.4.1 - A5.405.4.5				
	Mandatory	Weather Protection	5.407.1				
	Mandatory	Moisture Control: sprinklers	5.407.2.1				
	Mandatory	Moisture Control: Exterior door protection	5.407.2.2.1				
	Mandatory	Moisture Control: Flashing	5.407.2.2.2				
	Mandatory	Construction waste management-comply with either: sections 5.408.1.1, 5.408.1.2, 5.408.1.3 or more stringent local ordinance	5.408.1.1, 5.408.1.2, 5.408.1.3				
	Mandatory	Construction waste management: Documentation w/notes	5.408.1.4				
	Mandatory	Universal waste [A]	5.408.2				
	Mandatory	Excavated soil and land clearing debris (100% reuse or recycle)	5.408.3				
	<i>Tier 1 Prerequisite</i>	<i>Enhanced construction waste reduction 65% – Tier 1 w/ verification w/ verification</i>	A5.408.3.1 A5.408.3.1.2				
	<i>Tier 2 Prerequisite</i>	<i>Enhanced construction waste reduction 80%– Tier 2 w/ verification w/ verification</i>	A5.408.3.1.1 A5.408.3.1.2				
	Mandatory	Recycling by Occupants w/ exception	5.410.1				
	Mandatory	Recycling by Occupants: Additions w/ exception	5.410.1.1				
	Mandatory	Recycling by Occupants: Sample ordinance	5.410.1.2				
	Mandatory	Commissioning new buildings (≥ 10,000 SF) [N] w/exceptions and notes	5.410.2				
	Mandatory	Owner’s or Owner representative’s Project Requirements (OPR) [N]	5.410.2.1				
	Mandatory	Basis of Design (BOD) [N]	5.410.2.2				
	Mandatory	Commissioning Plan [N]	5.410.2.3				
	Mandatory	Functional Performance Testing [N]	5.410.2.4				
	Mandatory	Documentation and Training [N]	5.410.2.5				
	Mandatory	Systems Manual [N]	5.410.2.5.1				
	Mandatory	Systems Operation Training [N]	5.410.2.5.2				
	Mandatory	Commissioning Report [N]	5.410.2.6				
	Mandatory	Testing and adjusting for new buildings < 10,000 SF or new systems that serve additions or alterations.	5.410.4				
	Mandatory	System Testing Plan for renewable energy, landscape irrigation and water reuse [A]	5.410.4.2				
	Mandatory	Procedures for testing and adjusting	5.410.4.3				
	Mandatory	HVAC balancing	5.410.4.3.1				
	Mandatory	Reporting for testing and adjusting	5.410.4.4				
	Mandatory	Operation and Maintenance (O&M) Manual	5.410.4.5				
Mandatory	Inspection and reports	5.410.4.5.1					

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		Electives: select one for Tier 1 or three for Tier 2:					
	Elective	Wood framing or OVE w/ note	A5.404.1 A5.404.1.1 A5.404.1.2				
	Elective	Regional materials	A5.405.1				
	Elective	Bio-based materials	A5.405.2				
	Elective	Rapidly renewable materials	A5.405.2.2				
	Elective	Reused materials w/ note	A5.405.3				
	Elective	Cement and concrete: Cement	A5.405.5.1				
	Elective	Cement and concrete: Concrete /w SCM & Mix design equation	A5.405.5.2 A5.405.5.2.1 A5.405.5.2.1.1				
	Elective	Cement and concrete: Additional means of compliance	A5.405.5.3 A5.405.5.3.1 A5.405.5.3.1.1 A5.405.5.3.1.2 A5.405.5.3.2 A5.405.5.3.2.1 A5.405.5.3.2.2 A5.405.5.3.2.3 A5.405.5.3.2.4				
	Elective	Choice of materials	A5.406.1 A5.406.1.1 A5.406.1.2 A5.406.1.3				
	Elective	Life cycle assessment: General	A5.409.1				
	Elective	Whole building life cycle assessment	A5.409.2 A5.409.2.1 A5.409.2.2				
	Elective	Materials and system assemblies	A5.409.3				
	Elective	Substitution for prescriptive standards	A5.409.4				
	Elective	Verification of compliance	A5.409.5				
DIVISION 5.5 Environmental Quality	Mandatory	Fireplaces	5.503.1				
	Mandatory	Woodstoves	5.503.1.1				
	Mandatory	Temporary ventilation	5.504.1				
	Mandatory	Covering of ducts openings and protection of mechanical equipment during construction	5.504.3				
	Mandatory	Adhesives, sealants and caulks	5.504.4.1				
	Mandatory	Paints and coatings	5.504.4.3				
	Mandatory	Aerosol paints and coatings	5.504.4.3.1				
	Mandatory	Aerosol paints and coatings: Verification	5.504.4.3.2				
	Mandatory	Carpet systems	5.504.4.4				
	Mandatory	Carpet cushion	5.504.4.4.1				
	Mandatory	Carpet adhesive	5.504.4.4.2				
	Mandatory	Composite wood products	5.504.4.5				
	Mandatory	Composite wood products: Documentation	5.504.4.5.3				
	Mandatory	Resilient flooring systems	5.504.4.6				
	Mandatory	Resilient flooring: Verification of compliance	5.504.4.6.1				

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	Tier 1 Prerequisite	Resilient flooring systems, Tier 1 w/ verification of compliance)	A5.504.4.7 A5.504.4.7.2				
	Tier 2 Prerequisite	Resilient flooring systems, Tier 2 w/ verification of compliance)	A5.504.4.7.1 A5.504.4.7.2				
	Tier 1 Prerequisite	Thermal insulation, Tier 1 w/ verification of compliance	A5.504.4.8 A5.504.4.8.2				
	Tier 2 Prerequisite	Thermal insulation, Tier 2 w/ verification of compliance	A5.504.4.8.1 A5.504.4.8.2				
	Mandatory	Filters w/ exceptions	5.504.5.3				
	Mandatory	Filters: Labeling	5.504.5.3.1				
	Mandatory	Environmental tobacco smoke (ETS) control	5.504.7				
	Mandatory	Indoor moisture control	5.505.1				
	Mandatory	Outside air delivery	5.506.1				
	Mandatory	Carbon dioxide (CO2) monitoring	5.506.2				
	Mandatory	Acoustical control w/ exception	5.507.4				
	Mandatory	Exterior noise transmission, prescriptive method w/ exceptions	5.507.4.1				
	Mandatory	Noise exposure where noise contours are not readily available	5.507.4.1.1				
	Mandatory	Performance method	5.507.4.2				
	Mandatory	Site features	5.507.4.2.1				
	Mandatory	Documentation of compliance	5.507.4.2.2				
	Mandatory	Interior sound transmission w/ note	5.507.4.3				
	Mandatory	Ozone depletion and greenhouse gas reductions	5.508.1				
	Mandatory	Chlorofluorocarbons (CFCs)	5.508.1.1				
	Mandatory	Halons	5.508.1.2				
	Mandatory	Supermarket refrigerant leak reduction for retail food stores 8,000 square feet or more sections 5.508.2 through 5.508.2.6.3	5.508.2 through 5.508.2.6.3				
Electives: select one for Tier 1 or three for Tier 2:							
	Elective	Indoor air quality (IAQ) during construction	A5.504.1 A5.504.1.1 A5.504.1.2				
	Elective	IAQ postconstruction	A5.504.2				
	Elective	IAQ testing	A5.504.2.1 A5.504.2.1.1 A5.504.2.1.2 A5.504.2.1.3				
	Elective	No added formaldehyde Tier 1 w/ notes	A5.504.4.5.1				
	Elective	Acoustical ceilings and wall panels w/ verification of compliance	A5.504.4.9 A5.504.4.9.1				
	Elective	Hazardous particulates and chemical pollutants	A5.504.5				
	Elective	Entryway systems	A5.504.5.1				

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	Elective	Isolation of pollutant sources	A5.504.5.2				
	Elective	Lighting and thermal comfort controls	A5.507.1 A5.507.1.1 through A5.507.1.2				
	Elective	Daylight	A5.507.2				
	Elective	Views	A5.507.3				
	Elective	Interior office spaces	A5.507.3.1				
	Elective	Multi-occupant spaces (with exceptions)	A5.507.3.2				
	Elective	Hydrochlorofluorocarbons (HCFCs)	A5.508.1.3				
	Elective	Hydrofluorocarbons (HFCs)	A5.508.1.4				
Additional Measures	Select three additional measures from any division	1) 2) 3)					
For Tier 1 Projects (15 Additional Measures required – including all prerequisites and 1 elective measure from each division):			Total Tier 1 Measures Achieved _____				
For Tier 2 Projects (25 Additional Measures required – including all prerequisites and 3 elective measures from each division):			Total Tier 2 Measures Achieved _____				

Documentation Author's /Responsible Designer's Declaration Statement Check the appropriate box(s) for the list below	
<input type="checkbox"/> Mandatory: I attest that the mandatory provisions checklist is accurate and complete. <input type="checkbox"/> Tier 1 compliant: I attest that the total number of voluntary measures selected meet or exceed the total number required to achieve Tier 1 compliance. <input type="checkbox"/> Partial Tier 1 compliant: I attest that the total number of voluntary measures selected do not meet the total number required to achieve Tier 1 compliance however partial Tier 1 compliance has been achieved. <input type="checkbox"/> Tier 2 compliant: I attest that the total number of voluntary measures selected meet or exceed the total number required to achieve Tier 2 compliance. <input type="checkbox"/> Partial Tier 2 compliant: I attest that the total number of voluntary measures selected do not meet the total number required to achieve Tier 2 compliance however partial Tier 2 compliance has been achieved.	
Signature:	
Company:	Date:
Address:	License:
City/State/Zip:	Phone: