

City of Sonoma

2016 CALGREEN CHECKLIST

for

EXISTING LOW-RISE RESIDENTIAL BUILDINGS WHERE CONDITIONED AREA, VOLUME OR SIZE IS INCREASED

SCOPE: The provisions of this checklist apply to projects with an <u>Increase in Conditioned Area, Volume or Size</u> of existing low-rise residential buildings, including hotels, motels, lodging houses, dwellings, dormitories, condominiums, shelters, congregate residences, employee housing, factory-built housing and other types of dwellings with sleeping accommodations where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration. Detached "U" occupancy buildings and repairs to existing structures are not subject to the requirements of CALGreen. Existing site and landscaping improvements that are not otherwise disturbed are also not subject to the requirements of CALGreen.

APPENDIX A4

(Revised per City of Sonoma Requirements - Based on 2016 CA Green Building Code (CALGreen)

Project Name:	
Project Name:	

Project Address:

Project Description:

Instructions:

- 1. For Owner-Builder permits The Owner or the Owner's agent shall:
 - a. complete the project information above; and
 - b. read this checklist and understand the project requirements; and
 - c. consult with a 3rd party <u>City of Sonoma Authorized CALGreen Special Inspector</u> or Building Department staff to determine if any mandatory CALGreen measures are not applicable to the project and mark accordingly in **Column 2** of the checklist. Provide an explanation for why each measure to be marked "N/A" is not applicable to the project; and
 - d. complete the CALGreen acknowledgement in Section 1 on the last page of the checklist; and
 - e. submit the entire form to the Building Department along with the building permit application.
- 2. For permits issued to Licensed Contractors The Owner and the Contractor shall:
 - a. be sure that the project information above is completed; and
 - b. read this checklist and understand the project requirements; and
 - c. consult with a 3rd Party CALGreen Special Inspector or Building Department staff to determine if any mandatory CALGreen measures are not applicable to the project and mark accordingly in Column 2 of the checklist. Provide an explanation for why each measure to be marked "N/A" is not applicable to the project; and
 - d. complete and sign (<u>both</u> Owner and Contractor or their authorized agents) the CALGreen acknowledgement in Section 1 on the last page of the checklist; and
 - e. be sure that the entire CALGreen Checklist is submitted to the Building Department with the building permit application.
- 3. The City's plans examiner will complete **Column 3** of the checklist to determine who (City Staff or 3rd Party CALGreen Special Inspector) will provide verification of each applicable CALGreen measure.
- 4. When determined necessary by City staff and indicated in **Column 3** of the checklist, the Owner or Contractor shall employ a CALGreen Special Inspector, listed by the City of Sonoma Building Department, to perform CALGreen Special Inspector services.
- 5. In **Column 4**, Building Department staff will verify those measures checked in Column 3 of the checklist under the "City Staff" heading.
- 6. In **Column 4**, the 3rd Party CALGreen Special Inspector hired by the Owner must verify those measures checked in Column 3 of the checklist under the "3rd Party CALGreen Special Inspector "heading.
- 7. Prior to final inspection by the Building Department, the CALGreen Special Inspector (if required) shall complete **Column** 4 and sign and date **the Implementation Verification** section at the end of this checklist.

<u>NOTE</u>: The CALGreen Special Inspector shall not be the design professional or contractor for the project and shall not have a financial interest in the project for which services are being provided except for the cost of providing said services.

			R	Effective 1/1/2017 evised 12/13/2016
<u>Column 1</u> Feature or Measure	<u>Column 2</u> Project Requirements	<u>Column 3</u> Verification To Be Provided By:		<u>Column 4</u> Compliance Verified
	Must be incorporated into the project unless the measure is Not Applicable "N/A".	review staff	by City plan during plan iew.	Completed by verifier after measure has been completed.
See Chapter 4 of the 2016 California Green Building Code and <u>Sonoma</u> <u>Municipal Code</u> Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.	Mandatory Prerequisites	City Staff (if applicable) All Measures	3rd party CALGreen Special Inspector (if applicable) All Measures	3rd party CALGreen Special Inspector and/or City Staff
4.1 PLANNING AND DESIGN	All listed measures are mandatory unless Not Applicable "N/A"	determines verify the n	Review staff s who must neasures in mn 2	Complete prior to Final Inspection
Site Development				
4.106.2 A plan is developed and implemented to manage storm water drainage during construction. See <u>Sonoma Municipal Code</u> <u>Chapter 13.32 (Stormwater Management and Discharge Control)</u> for additional requirements.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	de explanation of why the	e measure is not	applicable (N/A)	:
4.106.3 Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.	Mandatory or □ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	de explanation of why the	e measure is not o	applicable (N/A)	
4.106.4 [Not applicable to existing buildings.]				
4.2 ENERGY EFFICIENCY	All listed measures are mandatory unless Not Applicable "N/A"	determines verify the n	Review staff s who must neasures in mn 2	Complete prior to Final Inspection
Performance Approach				
4.201.1 Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.	Mandatory or □ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide explanation of why the measure is not applicable (N/A):				

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	Must be incorporated into the project unless the measure is Not Applicable "N/A".		by City plan during plan iew.	Completed by verifier after measure has been completed.
See Chapter 4 of the 2016 California Green Building Code and <u>Sonoma</u> <u>Municipal Code</u> Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.	Mandatory Prerequisites	City Staff (if applicable) All Measures	3rd party CALGreen Special Inspector (if applicable) All Measures	3rd party CALGreen Special Inspector and/or City Staff
4.3 WATER EFFICIENCY AND CONSERVATION	All listed measures are mandatory unless Not Applicable "N/A"	determines verify the n	Review staff 5 who must 1easures in mn 2	Complete prior to Final Inspection
Indoor Water Use				
4.303.1 Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings shall comply with the prescriptive requirements of Sections 4.303.1.1 through 4.303.1.4.4.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide explanation of why the measure is not applicable (N/A):				
4.303.2 Plumbing fixtures and fittings required in Section 4.303.1 shall be installed in accordance with the California Plumbing Code, and shall meet the applicable referenced standards.	Mandatory or N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide explanation of why the measure is not applicable (N/A):				
4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY	All listed measures are mandatory unless Not Applicable "N/A"	determine verify the r	Review staff s who must neasures in imn 2	Complete prior to Final Inspection
Enhanced Durability and Reduced Maintenance				
4.406.1 Rodent Proofing. Annular spaces around pipes, electric cables, conduits, or other openings in plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the enforcing agency.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	de explanation of why the	e measure is not	applicable (N/A).	:

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	incorporated into the project unless the measure is Not Applicable "N/A".	review staff	by City plan i during plan iew.	Completed by verifier after measure has been completed.
See Chapter 4 of the 2016 California Green Building Code and <u>Sonoma</u> <u>Municipal Code</u> Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.	Mandatory Prerequisites	City Staff (if applicable) All Measures	3rd party CALGreen Special Inspector (if applicable) All Measures	3rd party CALGreen Special Inspector and/or City Staff
Construction Waste Reduction, Disposal and Recycling				
4.408.1 Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with one of the following:	Mandatory or □ N/A			
1. Submit a construction waste management plan, per Section 4.408.2; or				
 2. Utilize a waste management company, per Section 4.408.3; or 				
 3. Utilize the waste steam reduction alternative, per Section 4.408.4. 				
Indicate the plan sheet number where the above measure is noted on plans or provide explanation of why the measure is not applicable (N/A):				
Building Maintenance and Operation				
4.410.1 An operation and maintenance manual shall be provided to the building occupant or owner.	Mandatory or □ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	le explanation of why the	e measure is not d	applicable (N/A).	
4.5	All listed measures are	City Plan F	Review staff	
ENVIRONMENTAL QUALITY	mandatory unless Not Applicable "N/A"	verify the n	s who must neasures in mn 2	Complete prior to Final Inspection
Fireplaces				
4.503.1 Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove meeting the requirements of U.S. EPA New Source Performance Standards (NSPS) emission limits and Sonoma Municipal Code Chapter <u>14.28 (Wood-Burning Appliances)</u> ¹ .	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	le explanation of why the	e measure is not d	applicable (N/A).	:

 $^{^{1}}$ Modified to conform with Chapter 14.28 of the Sonoma Municipal Code

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See Chapter 4 of the 2016 California Green Building Code and <u>Sonoma</u> Municipal Code Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.	Mandatory Prerequisites	City Staff (if applicable) All Measures	3rd party CALGreen Special Inspector (if applicable) All Measures	3rd party CALGreen Special Inspector and/or City Staff
Pollutant Control		-	-	
4.504.1 Duct openings and other related air distribution component openings shall be covered during construction.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide explanation of why the measure is not applicable (N/A):				
4.504.2.1 Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits.	Mandatory or □ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provid	de explanation of why the	e measure is not o	applicable (N/A).	
4.504.2.2 Paints, stains and other coatings shall be compliant with VOC limits.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provid	de explanation of why the	e measure is not o	applicable (N/A).	:
4.504.2.3 Aerosol paints and other coatings shall be compliant with product weighted MIR Limits for ROC and other toxic compounds.	Mandatory or □ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide explanation of why the measure is not applicable (N/A):				
4.504.2.4 Documentation shall be provided to verify that compliant VOC limit finish materials have been used.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	de explanation of why the	e measure is not a	applicable (N/A).	:
4.504.3 Carpet and carpet systems shall be compliant with VOC limits.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	de explanation of why the	e measure is n <mark>ot d</mark>	applicable (N/A).	:

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	incorporated into the project unless the measure is Not Applicable "N/A".	Completed i review staff revi		Completed by verifier after measure has been completed.
See Chapter 4 of the 2016 California Green Building Code and <u>Sonoma</u> <u>Municipal Code</u> Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.	Mandatory Prerequisites	City Staff (if applicable) All Measures	3rd party CALGreen Special Inspector (if applicable) All Measures	3rd party CALGreen Special Inspector and/or City Staff
4.504.4 80 percent of floor area receiving resilient flooring shall comply with the VOC-emission limits shall comply with the VOC-emission limits established in section 4.504.4.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provid	le explanation of why the	e measure is not c	applicable (N/A).	:
4.504.5 Particleboard, medium density fiberboard (MDF), and hardwood plywood used in interior finish systems shall comply with low formaldehyde emission standards.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide explanation of why the measure is not applicable (N/A):				
Interior Moisture Control				
4.505.2 Vapor retarder and capillary break is installed at slab on grade foundations.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	le explanation of why the	e measure is not d	xpplicable (N/A).	:
4.505.3 Moisture content of building materials used in wall and floor framing is checked before enclosure.	Mandatory or □ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provide	le explanation of why the	e measure is not d	xpplicable (N/A).	:
Indoor Air Quality and Exhaust				
4.506.1 Each bathroom (with tub or shower) must be mechanically ventilated with a humidity controlled Energy Star compliant exhaust fan which terminates outside of the building unless otherwise a component of a whole house ventilation system.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provid	le explanation of why the	? measure is not c	אָס (N/A).	:

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See Chapter 4 of the 2016 California Green Building Code and <u>Sonoma</u> <u>Municipal Code</u> Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.	Mandatory Prerequisites	City Staff (if applicable) All Measures	3rd party CALGreen Special Inspector (if applicable) All Measures	3rd party CALGreen Special Inspector and/or City Staff
Environmental Comfort				
 4.507.2. Duct systems are sized and designed and equipment is selected using the following methods: 1. Establish heat loss and heat gain values according to ANSI/ACCA Manual J-2004 or equivalent. 2. Size duct systems according to ANSI/ACCA 1 Manual D - 2009 or equivalent. 3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2004 or equivalent. Indicate the plan sheet number where the above measure is noted on plans or provi 	Mandatory or N/A	e measure is not o	applicable (N/A)	
Innovative Concepts and Local Environmental Conditions			Γ	
Items necessary to address innovative concepts or local environmental conditions.				
Item 1:				
Item 2:				
INSTALLER AND CALGreen SPECIAL INSPECTOR QUALIFICATIONS	All listed measures are mandatory unless Not Applicable "N/A"	determines verify the n	Review staff s who must neasures in mn 2	Complete prior to Final Inspection
Qualifications				
702.1 HVAC system installers are trained and certified in the proper installation of HVAC systems.	Mandatory or N/A			
Indicate the plan sheet number where the above measure is noted on plans or provi	ide explanation of why the	e measure is not o	applicable (N/A)	
702.2 The CALGreen Special Inspector for this project is listed by the City of Sonoma as an approved <u>CALGreen Special Inspector</u> and is qualified and able to demonstrate competence in the discipline they inspect and verify.	Mandatory or ☐ N/A			
Indicate the plan sheet number where the above measure is noted on plans or provi	de explanation of why the	e measure is not o	applicable (N/A)	:

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See Chapter 4 of the 2016 California Green Building Code and <u>Sonoma</u> <u>Municipal Code</u> Chapters 14.10 and 14.32 for complete descriptions of features or measures listed here.	Mandatory Prerequisites	City Staff (if applicable) All Measures	3rd party CALGreen Special Inspector (if applicable) All Measures	3rd party CALGreen Special Inspector and/or City Staff
Verifications				-
703.1 Verification of compliance with CALGreen may include construction documents, plans, specifications builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which show substantial conformance. Implementation verification shall be submitted to the Building Department after implementation of all required measures and prior to final inspection approval.	Mandatory			

Effective 1/1/2017

Green Building Acknowledgments

Project Address:

Project Description:

Section 1 - Design Verification

Complete all lines of Section 1- "Design Verification" and submit the completed checklist (Columns 1 and 2) with the plans and building permit application to the Building Department.

The owner, design professional <u>and</u> the Sonoma approved CALGreen special inspector **(all signatures required)** have reviewed the plans and certify that the items checked above are hereby incorporated into the project plans and will be implemented into the project in accordance with the requirements set forth in the 2016 California Green Building Standards Code as amended by Chapter 14.10 of the Sonoma Municipal Code.

Owner's Signature	Date
Owner Name (Please Print)	
Design Professional's Signature	Date
Design Professional's Name (Please Print)	
Signature of Listed Green Building Special Inspector	Date
Listed CALGreen Special Inspector's Name (Please Print)	Phone
Green CALGreen Special Inspector's E-mail Address	CALGreen Certification No.

Section 2 - Implementation Verification

Complete, sign and submit the completed checklist, including Column 4, together with all original signatures in this Section 2 – "Implementation Verification" to the Building Department prior to Building Department final inspection.

I have inspected the work have received sufficient documentation to verify and certify that the project identified above was constructed in accordance with this Green Building Checklist and in accordance with the requirements set forth in the 2016 California Green Building Standards Code as amended by Chapter 14.10 of the Sonoma Municipal Code.

Listed CALGreen Special Inspector or City Inspector Signature	Date
CALGreen Special Inspector's Name (Please Print)	Phone (if different than above)
CALGreen Special Inspector's E-mail Address (if different than above)	CALGreen Certification No.