

Item 4f
ATTACHMENT C
A5.602.2
CALGreen VERIFICATION GUIDELINES
TIER 2 CHECKLIST

Application: This checklist shall be used for nonresidential projects that meet the following: new construction, or building additions of 1,000 sq. ft. or greater, or building alterations with a permit valuation of \$200,000 or more pursuant to section 5.301.1, AND are adopting Tier 2 voluntary measures.

Note: All applicable mandatory requirements in chapter 5 shall be met prior to applying Tier 2 voluntary measures.

Instructions:

Comply with all Tier 2 prerequisite measures from the various categories shown on the table below.

Add a "Y" to all Mandatory and Tier 2 prerequisite provisions in the appropriate columns.

Select the required number of additional electives from those categories shown on the table below and add a "Y" on the selected elective and add an "N" on the rest.

Count the total number of Tier 1 prerequisite measures plus the additional electives and write down the total number at the end of the checklist. Determine if the required number of Tier 2 measures have been selected to achieve Tier 2 compliance.

Y=Yes (section has been selected and/or included)

N=No (section has not been selected and/or included)

O=Other (provide explanation)

[N]=New construction pursuant to section 301.1

[A]=Additions and/or Alterations pursuant to section 301.1

CHAPTER 5 DIVISIONS		SECTION TITLE	CODE SECTION	Y	N	O	Plan sheet, Spec or Attach Reference
DIVISION 5.1 Planning and Design	Mandatory	Storm Water Pollution Prevention	5.106.1				
	Mandatory	Short Term Bicycle Parking	5.106.4.1.1				
	Mandatory	Long Term Bicycle Parking	5.106.4.1.2				
	Mandatory	Designated Parking	5.106.5.2				
	<i>Tier 2 Prerequisite</i>	<i>Designated Parking - 12% of Parking Capacity</i>	<i>A5.106.5.1.2</i>				
	Mandatory	Parking stall marking	5.106.5.2.1				
	Mandatory	Single Charging space requirements	5.106.5.3.1				
	Mandatory	Multiple Charging space requirements	5.106.5.3.2				
	<i>Tier 2 Prerequisite</i>	<i>Electric Vehicle (EV) Charging [N]</i>	<i>A5.106.5.3.2</i>				
	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 w/ notes 1-3	5.106.5.3.5				
	Mandatory	Light Pollution Reduction [N] w/ exceptions and	5.106.8				
	Mandatory	Grading and Paving, Exception for Additions and Alterations not altering the drainage path	5.106.10				
<i>Tier 2 Prerequisite</i>	<i>Cool Roof (T.A5.106.11.2.3): SRI 75 when < 2:12, SRI 16 when >2:12</i>	<i>A5.106.11.2</i>					

SELECT THREE ELECTIVES	Electives	Community Connectivity	A5.103.1				
	Electives	Brownfield or Greyfield site redevelopment or infill area development.	A5.103.2				
	Electives	Reduce development footprint and optimize open space.	A5.104.1				
	Electives	Disassemble and Reuse Existing Building Structure (70%)	A5.105.1.1				
	Electives	Disassemble and Reuse Existing Non-Structure elements (50%)	A5.105.1.2				
	Electives	Salvage	A5.105.1.3				
	Electives	Storm Water Design	A5.106.2				
	Electives	Low Impact Development (LID)	A5.106.3				
	Electives	Changing rooms	A5.106.4.3				
	Electives	Parking Capacity	A5.106.6				
	Electives	Exterior Wall Shading	A5.106.7				
	Electives	Heat Island Effect	A5.106.11				
DIVISION 5.2 Energy Efficiency	Mandatory	Meet the minimum Energy Efficiency Standard	5.201.1				
SELECT THREE ELECTIVES	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				
	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 w/ controls	A5.212.1.2 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 2 Prerequisite	Water Reduction Tier 2. 20% or 25% savings over the "water use baseline" Table A5.303.2.2	A5.303.2.3.2 or A5.303.2.3.3					
Mandatory	Water closets shall not exceed 1.28 gallons per	5.303.3.1					
Mandatory	Wall-mounted urinals shall not exceed 0.125 gpf	5.303.3.2.11					
Mandatory	Floor-mounted urinals shall not exceed 0.5 gpf	5.303.3.2.2					
Mandatory	Single showerhead shall have maximum flow rate of 2.0 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 2.0 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 basins	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					

SELECT THREE ELECTIVES

Mandatory	Outdoor water use in landscape areas equal to or greater than 500 sf	5.304.2				
Mandatory	Outdoor water use in rehabilitated landscape projects with areas equal to or greater than 2,500	5.304.3				
Mandatory	Outdoor water use in landscape areas of 2,500 sf or less	5.304.4				
Mandatory	Graywater or rainwater use in landscaped areas	5.304.5				
<i>Elective</i>	<i>Nonpotable water systems for indoor use</i>	<i>A5.303.2.3.4</i>				
<i>Elective</i>	<i>Appliances and fixtures for commercial application</i>	<i>A5.303.3</i>				
<i>Elective</i>	<i>Dual plumbing</i>	<i>A5.303.5</i>				
<i>Elective</i>	<i>Outdoor potable water use</i>	<i>A5.304.2.1</i>				
<i>Elective</i>	<i>Potable water reduction 60 percent ETo</i>	<i>A5.304.4 A5.304.4.1 A5.304.4.3</i>				
<i>Elective</i>	<i>Potable water elimination</i>	<i>A5.304.5</i>				
<i>Elective</i>	<i>Restoration of areas disturbed by construction</i>	<i>A5.304.6</i>				
<i>Elective</i>	<i>Previously developed sites w/ exception</i>	<i>A5.304.7</i>				
<i>Elective</i>	<i>Graywater irrigation system</i>	<i>A5.304.8</i>				
<i>Elective</i>	<i>Nonpotable water systems</i>	<i>A5.305.1</i>				
<i>Elective</i>	<i>Irrigation systems</i>	<i>A5.305.2</i>				
DIVISION 5.4	<i>Tier 2 Prerequisite</i>	<i>Recycled content for 15% of total material cost</i>	<i>A5.405.4 A5.405.4.1 Through A5.405.4.5</i>			
Material Conservation and Resource Efficiency	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	5.408.1.4			
	Mandatory	Excavated soil and land clearing debris (100% reuse or recycle)	5.408.3			
	<i>Tier 2 Prerequisite</i>	<i>Enhanced construction waste reduction 80%—Tier 2 w/ verification w/ verification</i>	<i>A5.408.3.1.1 A5.408.3.1.2</i>			
	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]	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. [A]	5.410.4					
	Mandatory	System Testing Plan for HVAC, Lighting, water heating, renewable energy, landscape irrigation and water reuse. [AA]	5.410.4.2					
	Mandatory	Procedures for testing and adjusting	5.410.4.3					
	Mandatory	Procedures for 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					
	Mandatory	Fireplaces	5.503.1					
DIVISION 5.5 Environmental Quality	Mandatory	Woodstoves	5.503.1.1					
	Mandatory	Temporary ventilation	5.504.1.3					
	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 adhesives per table 5.504.4.1	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					
		<i>Tier 2 Prerequisite</i>	<i>Resilient flooring systems, Tier 2 w/ verification</i>	<i>A5.504.4.7.1</i> <i>A5.504.4.7.2</i>				
		<i>Tier 2 Prerequisite</i>	<i>Thermal insulation, Tier 2 w/ verification of compliance</i>	<i>A5.504.4.8.1</i> <i>A5.504.4.8.2</i>				
		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				
SELECT THREE ELECTIVES	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	A5.405.5.2				
	Elective	Cement and concrete: Additional means of	A5.405.5.3				
	Elective	Choice of materials	A5.406.1				
	Elective	Life cycle assessment: General	A5.409.1				
	Elective	Whole building life cycle assessment	A5.409.2				
	Elective	Materials and system assemblies	A5.409.3				
	Elective	Substitution for prescriptive standards	A5.409.4				
	Elective	Verification of compliance	A5.409.5				
	Elective	Indoor air quality (IAQ) during construction	A5.504.1				
	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					
Elective	Isolation of pollutant sources	A5.504.5.2					
Elective	Filters, Tier 2	A5.504.5.3.1.1					
Elective	Lighting and thermal comfort controls	A5.507.1 A5.507.1.1 through A5.507.1.2					

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	<i>Elective</i>	<i>Views w/ exception</i>	<i>A5.507.3</i>				
	<i>Elective</i>	<i>Interior office spaces</i>	<i>A5.507.3.1</i>				
	<i>Elective</i>	<i>Multi-occupant spaces</i>	<i>A5.507.3.2</i>				
	<i>Elective</i>	<i>Hydrochlorofluorocarbons (HCFCs)</i>	<i>A5.508.1.3</i>				
	<i>Elective</i>	<i>Hydrofluorocarbons (HFCs)</i>	<i>A5.508.1.4</i>				
Additional Measures	<i>Added measures Should be achieved across at least three categories</i>	<i>Select 3 additional measure</i>	Additional measures: 1. 2. 3.				
Total number of Measures required for Tier 2			25				
Total number of Measures selected							

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 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: