A5.602.2
*CALGreen* VERIFICATION GUIDELINES
TIER 2 CHECKLIST
2019 Edition

**Application:** This checklist shall be used for nonresidential projects that meet the following: new construction, or building additions of 1,000 square feet or greater, or building alterations

with a permit valuation of $200,000 or more pursuant to Section 301.3, 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 measures 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 2 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 301.3

**[A]** = Additions and/or Alterations pursuant to Section 301.3

# **Chapter 5 DIVISIONS**

## DIVISION 5.1 Planning and Design(Select three electives from this Division)

| **Requirement** | **SECTION TITLE** | **CODE SECTION** | **Y** | **N** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFERENCE** |
| --- | --- | --- | --- | --- | --- | --- |
| Mandatory | Storm water pollution prevention for projects that disturb less than 1 acre of land | 5.106.1 through 5.106.2 |  |  |  |  |
| Mandatory | Short-term bicycle parking (with exception) | 5.106.4.1.1 |  |  |  |  |
| Mandatory | Long-term bicycle parking | 5.106.4.1.2 through 5.106.4.1.5 |  |  |  |  |
| Mandatory | Designated parking for clean air vehicles | 5.106.5.2 |  |  |  |  |
| *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 charging space requirements | 5.106.5.3.1 |  |  |  |  |
| Mandatory | Multiple charging space requirements [N] | 5.106.5.3.2 |  |  |  |  |
| *Tier 2 Prerequisite* | *Electric vehicle (EV) charging [N] with 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* |  |  |  |  |
| Mandatory | EV charging space calculation [N] (with 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] (with exceptions and notes) | 5.106.8 |  |  |  |  |
| Mandatory | Grading and paving (exception for additions and alterations not altering the drainage path) | 5.106.10 |  |  |  |  |
| *Tier 2 Prerequisite* | *Cool roof (A5.106.11.2.2): SRI 82 when ≤ 2:12, SRI 27 when > 2:12* | *A5.106.11.2* |  |  |  |  |
| *Elective* | *Community connectivity* | *A5.103.1* |  |  |  |  |
| *Elective* | *Brownfield or greyfield site redevelopment or infill area development* | *A5.103.2, A5.103.2.1* |  |  |  |  |
| *Elective* | *Reduce development footprint and optimize open space* | *A5.104.1, A5.104.1.1, A5.104.1.2, A5.104.1.3* |  |  |  |  |
| *Elective* | *Disassemble and reuse existing building structure (75%) with exceptions* | *A5.105.1.1* |  |  |  |  |
| *Elective* | *Disassemble and reuse existing nonstructural elements (50%) with exceptions* | *A5.105.1.2* |  |  |  |  |
| *Elective* | *Salvage* | *A5.105.1.3* |  |  |  |  |
| *Elective* | *Storm water design* | *A5.106.2, A5.106.2.1, A5.106.2.2* |  |  |  |  |
| *Elective* | *Low Impact Development (LID)* | *A5.106.3, A5.106.3.1, A5.106.3.2* |  |  |  |  |
| *Elective* | *Changing rooms with note* | *A5.106.4.3* |  |  |  |  |
| *Elective* | *Parking capacity with reduced parking capacity option* | *A5.106.6, A5.106.6.1* |  |  |  |  |
| *Elective* | *Exterior wall shading with fenestration and/or opaque wall area option* | *A5.106.7, A5.106.7.1, A5.106.7.2* |  |  |  |  |
| *Elective* | *Heat island effect* | *A5.106.11* |  |  |  |  |

## DIVISION 5.2 Energy Efficiency

| **Requirement** | **SECTION TITLE** | **CODE SECTION** | **Y** | **N** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFERENCE** |
| --- | --- | --- | --- | --- | --- | --- |
| Mandatory | Meet the minimum energy efficiency standard | 5.201.1 |  |  |  |  |
| *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 of 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 (with documentation)* | *A5.211.1, A5.211.1.1* |  |  |  |  |
| *Elective* | *Green power* | *A5.211.3* |  |  |  |  |
| *Elective* | *Elevators with 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(Select three electives from this Division)

| **Requirement** | **SECTION TITLE** | **CODE SECTION** | **Y** | **N** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFERENCE** |
| --- | --- | --- | --- | --- | --- | --- |
| 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” in 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 flush (gpf) | 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 or alterations | 5.303.5 |  |  |  |  |
| Mandatory | Standards for plumbing fixtures and fittings | 5.303.6 |  |  |  |  |
| Mandatory | Outdoor water use in landscape areas (with notes) | 5.304.1 |  |  |  |  |
| *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 (with exception)* | *A5.304.7* |  |  |  |  |
| *Elective* | *Graywater irrigation system* | *A5.304.8* |  |  |  |  |
| *Elective* | *Nonpotable water systems* | *A5.305.1* |  |  |  |  |
| *Elective* | *Irrigation systems* | *A5.305.2* |  |  |  |  |

## DIVISION 5.4 Material Conservation and Resource Efficiency(Select three electives from this Division)

| **Requirement** | **SECTION TITLE** | **CODE SECTION** | **Y** | **N** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFERENCE** |
| --- | --- | --- | --- | --- | --- | --- |
| *Tier 2 Prerequisite* | *Recycled content for 15% of total material cost* | *A5.405.4, A5.405.4.1 through 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 | 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 |  |  |  |  |
| *Tier 2 Prerequisite* | *Enhanced construction waste reduction (80%—Tier 2 with verification)* | *A5.408.3.1, A5.408.3.1.2* |  |  |  |  |
| Mandatory | Recycling by occupants (with exception) | 5.410.1 |  |  |  |  |
| Mandatory | Recycling by occupants: additions (with 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 renewable energy, landscape irrigation and water reuse [A] | 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 |  |  |  |  |
| *Elective* | *Wood framing or OVE (with 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 with note* | *A5.405.3* |  |  |  |  |
| *Elective* | *Cement and concrete: cement* | *A5.405.5.1* |  |  |  |  |
| *Elective* | *Cement and concrete: concrete with 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(Select three electives from this Division)

| **Requirement** | **SECTION TITLE** | **CODE SECTION** | **Y** | **N** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFERENCE** |
| --- | --- | --- | --- | --- | --- | --- |
| 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 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 |  |  |  |  |
| *Tier 2**Prerequisite* | *Resilient flooring systems, Tier 2 (with verification of compliance)* | *A5.504.4.7, A5.504.4.7.2* |  |  |  |  |
| *Tier 2* *Prerequisite* | *Thermal insulation, Tier 2 (with verification of compliance)* | *A5.504.4.8,A5.504.4.8.2* |  |  |  |  |
| Mandatory | Filters (with 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 (with exception) | 5.507.4 |  |  |  |  |
| Mandatory | Exterior noise transmission, prescriptive method (with 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 (with 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 | 5.508.2 through 5.508.2.6.3 |  |  |  |  |
| *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, A5.504.2.1.2, A5.504.2.1.3* |  |  |  |  |
| *Elective* | *No added formaldehyde Tier 1 (with notes)* | *A5.504.4.5.1* |  |  |  |  |
| *Elective* | *Acoustical ceilings and wall panels(with 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* | *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 Electives

| **Requirement** | **SECTION TITLE** | **CODE SECTION** | **Y** | **N** | **O** | **PLAN SHEET, SPEC, OR ATTACH REFERENCE** |
| --- | --- | --- | --- | --- | --- | --- |
| Additional Measures | Select 3 additional elective measures from any division | Enter Section #s:1.2.3. |  |  |  |  |

|  |  |
| --- | --- |
| Total number of elective measures required for Tier 2 is: | 25 |
| Enter the total number of elective measures selected: |  |

|  |  |
| --- | --- |
| **Documentation Author's/Responsible Designer's Declaration Statement*****Check the appropriate box(es) on the list below.*****□ Mandatory:** I attest that the mandatory portion of this Tier 2 checklist is accurate and complete.**□ 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.**□ 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: |