

Designer's Report for National Green Building Certification

Generated by the Green Scoring Tool for the National Green Building Standard, v1.00
Tuesday, November 17, 2009 5:55 PM

Project Name - **Lytle Home**
Project Description - **Lytle Home**
Scoring Path - **Single-Family New Construction**
Square Footage of Dwelling Unit - **8341**
Total points claimed in this Project - **897**
Green level achieved for this Project - **Emerald**
Point Minimums for this Project: Bronze: 266 Silver: 450 Gold: 602 Emerald: 741

CHAPTER 5 - Lot Design, Preparation, and Development

Section 501 -Lot Selection

Practice 501.1 Lot

The lot is selected to minimize environmental impact by one or more of the following:

An infill lot is selected.

Conditions met

Points Claimed: 4

Documentation Required - None.

Practice 501.2 Mass transportation

A range of mass transportation choices are promoted by one or more of the following:

Pedestrian activity promoted.

Conditions met

Points Claimed: 3

Documentation Required - None.

Community resources (6 or more) close by.

Conditions met

Points Claimed: 3

Documentation Required - Map showing location of community resources relative to building.

Section 502 -Project Team, Mission Statement, and Goals

Practice 502.1 Project team, mission statement, and goals

A knowledgeable team & mission statement is established.

Conditions met

Points Claimed: 4

Documentation Required - Project mission statement, goals, and specific team member roles identified.

Section 503 -Lot Design

Practice 503.1 Natural resources

Natural resources are conserved by one or more of the following:

Note: To be awarded points allocated for design, the intent of the design must be implemented.

A natural resources inventory is completed.

Conditions met

Points Claimed: 5

Documentation Required - Natural resource inventory signed by qualified professional.

A plan is implemented to conserve the elements identified by the resource inventory as high priority resources.

Conditions met

Points Claimed: 6

Documentation Required - Conservation plan

Items listed for protection in the resource inventory plan are protected under the direction of a qualified professional.

Conditions met

Points Claimed: 4

Documentation Required - Statement from professional that he/she directed plan implementation.

Basic training in tree or other natural resource protection is provided for the on-site supervisor.

Conditions met

Points Claimed: 4

Documentation Required - Evidence of site supervisor training.

All tree pruning on-site is conducted by a Certified Arborist.

Conditions met

Points Claimed: 2

Documentation Required - Invoice or other evidence from Certified Arborist.

Ongoing maintenance of vegetation during construction is in accordance with TCIA A300.

Conditions met

Points Claimed: 3

Documentation Required - Statement from professional that maintenance of vegetation during construction complies.

Practice 503.2 Slope disturbance

Slope disturbance is minimized by one or more of the following:

Note: To be awarded points allocated for design, the intent of the design must be implemented. Points awarded only if there are developable steep slopes on the lot.

All or a percentage of development on steep slopes is avoided.

Greater than 75%

Points Claimed: 4

Documentation Required - Site plan with existing and proposed contour lines. Identify areas of slopes in excess of 25% (if any), and areas of slopes that are disturbed. Calculation showing the percent area of slopes that are undisturbed.

Hydrological/soil stability study for steep slopes is completed & used.

Conditions met

Points Claimed: 5

Documentation Required - Report from qualified professional stating intent of the requirement has been met.

Roads aligned to reduce cut/fill.

Greater than 75%

Points Claimed: 5

Documentation Required - Report from qualified professional stating intent of the requirement has been met.

Erosion reduced through use of terracing, retaining walls, landscaping and restabilization.

Conditions met

Points Claimed: 6

Documentation Required - Report from qualified professional stating intent of the requirement has been met.

Practice 503.3 Soil disturbance and erosion

Soil disturbance and erosion are minimized by one or more of the following: (also see Section 504.3)

Points must be taken here to claim points in [504.1](#)

Construction schedule minimizes soil exposure.

Conditions met

Points Claimed: 5

Documentation Required - Construction schedule.

Practice 503.4 Storm water management

Storm water is managed using one or more of the following low impact development techniques:

Note: To be awarded points allocated for design, the intent of the design must be implemented.

Natural water/drainage features are preserved.

Conditions met	Points Claimed: 6
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Documentation Required - Photos or other document showing water & natural drainage prior to development.
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Storm water plan used to minimize concentrated flows & simulates natural flows.

Conditions met	Points Claimed: 6
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Documentation Required - Storm water management plan.

Hardscape is permeable.

25-75%	Points Claimed: 3
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Documentation Required - Calculation showing % of hardscape surface covered with permeable materials.

>75 % of the roof is vegetated (green roof).

Conditions met	Points Claimed: 3
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Documentation Required - None.

Practice 503.5 Landscape plan

Note: To be awarded points allocated for design, the intent of the design must be implemented.

A plan to restore/enhance natural vegetation and to ensure denuded areas are quickly vegetated. Points must be taken here to claim points in 801.7.4(3).

Conditions met	Points Claimed: 5
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Documentation Required - Photos or other evidence of natural vegetation prior to development. Landscape plan.

Native or regionally appropriate grass, vegetation, & trees are used.

Conditions met	Points Claimed: 4
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Documentation Required - List of regionally appropriate plants. Landscape contractor statement or labels on plants.

A percentage or all turf areas are limited.

Lot is 25% to less than 50% turf	Points Claimed: 2
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Documentation Required - Calculation showing % of lot (minus building footprint & hardscape) that is turf.
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Plants with similar watering needs are grouped.

Conditions met	Points Claimed: 5
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Documentation Required - Landscape plan by qualified landscape architect showing watering needs.

Trees will provide summer shading of streets, parking, & buildings to moderate temperatures.

Conditions met	Points Claimed: 5
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Documentation Required - Landscape plan by qualified landscape architect.

Vegetative wind breaks designed.

Conditions met	Points Claimed: 4
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Documentation Required - Landscape plan by qualified landscape architect.

Pest management plan developed to minimize chemicals.

Conditions met	Points Claimed: 4
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Documentation Required - Pest management plan.

Practice 503.7 Mixed-use development

Note: To be awarded points allocated for design, the intent of the design must be implemented.

Mixed-use development is incorporated.

Conditions met	Points Claimed: 6
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Documentation Required - None.

Practice 503.8 Environmentally sensitive areas

Environmentally sensitive areas are considered by one or more of the following:

Note: To be awarded points allocated for design, the intent of the design must be implemented.

Environmentally sensitive areas avoided.

Conditions met	Points Claimed: 3
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Documentation Required - Site plan showing no sensitive areas.

Compromised environmentally sensitive areas are mitigated or restored.

Conditions met	Points Claimed: 3
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Documentation Required - Site plan showing original location of sensitive areas. Plan by qualified professional showing appropriate mitigation steps.

Section 504 -Lot Construction

Practice 504.2 Trees and vegetation

Designated trees and vegetation are preserved by one or more of the following:

Fencing is installed to protect trees & vegetation.

Conditions met

Points Claimed: 3

Documentation Required - None.

Trenching, grading, & compaction avoided in "tree save" areas.

Conditions met

Points Claimed: 4

Documentation Required - None.

Pruning, fertilizing, and watering used to mitigate damage to trees/vegetation.

Conditions met

Points Claimed: 4

Documentation Required - Invoice or other evidence from qualified arborist.

Practice 504.3 Soil disturbance and erosion

On-site soil disturbance and erosion are minimized by one or more of the following: *(also see Section 503.3)*

Limits of clearing/grading are staked out.

Conditions met

Points Claimed: 5

Documentation Required - None.

"No disturbance" zones are created to protect vegetation.

Conditions met

Points Claimed: 5

Documentation Required - None.

Sediment/erosion controls are installed.

Conditions met

Points Claimed: 5

Documentation Required - None.

Topsoil stockpiled/stabilized for later use.

Conditions met	Points Claimed: 5
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Documentation Required - None.

Disturbed areas are stabilized within 14 days.

Conditions met	Points Claimed: 3
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Documentation Required - As-built construction schedule

Soil is improved with organic amendments and mulch.

Conditions met	Points Claimed: 3
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Documentation Required - Invoice or evidence from landscape contractor.

Utilities are installed using alternative means.

Conditions met	Points Claimed: 5
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Documentation Required - Plans and scope of work showing alternative means used.

Section 505 -Innovative Practices

Practice 505.2 Heat island mitigation

Any combination of the following strategies are provided for a minimum of 50% of the horizontal surface area of the hardscape: 1) shading of hardscaping, and 2) light-colored hardscaping.

Conditions met	Points Claimed: 4
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Documentation Required - Calculation showing percent of hardscape included in heat island minimization.

Total points claimed in Chapter 5 - Lot Design, Preparation, and Development: **168**

Point Minimums for this Chapter: Bronze: 39 Silver: 66 Gold: 93 Emerald: 119

CHAPTER 6 - Resource Efficiency

Section 601 -Quality of Construction Materials and Waste

Practice 601.2 Material usage

Points awarded for each system or framing technique implemented.

Structural systems/advanced framing techniques optimize material usage.

3 or more systems or framing techniques implemented	Points Claimed: 9
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Documentation Required - List of advanced framing features shown on plans.

Practice 601.3 Building dimensions and layouts

Building dimensions and layouts are designed to reduce material cuts and waste. This practice is used for a minimum of 80% of the following areas:

Building dimensions & layouts reduce material cuts & waste in at least 80% of floor area.

Conditions met

Points Claimed: 3

Documentation Required - Plans showing dimensions & layouts to minimize material usage and waste.
MAX PTS. = 13

Building dimensions & layouts reduce material cuts & waste in at least 80% of wall area.

Conditions met

Points Claimed: 3

Documentation Required - Plans showing dimensions & layouts to minimize material usage and waste.
MAX PTS. = 13

Building dimensions & layouts reduce material cuts & waste in at least 80% of roof area.

Conditions met

Points Claimed: 3

Documentation Required - Plans showing dimensions & layouts to minimize material usage and waste.
MAX PTS. = 13

Building dimensions & layouts reduce material cuts & waste in at least 80% of cladding/siding area.

Conditions met

Points Claimed: 3

Documentation Required - Plans showing dimensions & layouts to minimize material usage and waste.
MAX PTS. = 13

Building dimensions & layouts reduce material cuts & waste in at least 80% of penetrations/trim area.

Conditions met

Points Claimed: 1

Documentation Required - Plans showing dimensions & layouts to minimize material usage and waste.
MAX PTS. = 13

Practice 601.4 Framing and structural plans

Detailed framing/structural plans, material lists, on-site cut lists for framing/structural materials are provided.

Conditions met

Points Claimed: 4

Documentation Required - Framing/structural plans, material and cut lists.

Practice 601.5 Prefabricated components

Precut or preassembled components, or panelized or precast assemblies are utilized for a minimum of 90% for the following system or building:

Precut/preassembled components, panelized, or precast assemblies are utilized for a minimum of 90% of floor, wall, and/or roof system. If points claimed for these systems, points cannot be claimed for Modular or Manufactured home construction.

Floor system	Points Claimed: 4
Wall system	Points Claimed: 4
Roof system	Points Claimed: 4
Documentation Required - None.	

Practice 601.6 Stacked stories

Stories above grade are stacked.

1 stacked story	Points Claimed: 4
Documentation Required - None.	

Practice 601.7 Site applied finishing materials

Building materials/assemblies do not require additional site applied material for finishing. 12 points max. awarded.

Total Points Claimed for this Item: 12

# of types of materials or assemblies where at least 90% are pre-finished	2 * 5 points
# of types of materials or assemblies where at least 50% are pre-finished	1 * 2 points

Documentation Required - For products other than those listed in the first column, provide manufacturer's literature or other justification showing a reduction in material usage of at least 20% for a given product. List materials used.

Practice 601.8 Foundations

Frost-protected shallow foundations, pier and pad foundations, post foundations, etc. are constructed.

Conditions met	Points Claimed: 3
Documentation Required - Plans showing foundation details.	

Practice 601.9 Above grade wall systems

Adobe, concrete, log, earth systems provide sufficient structural and thermal characteristics (>75% of the exterior wall area).

Conditions met	Points Claimed: 4
Documentation Required - None.	

Section 602 -Enhanced Durability and Reduced Maintenance

Practice 602.1 Exterior Doors

Entries at exterior door assemblies are covered.

Main entrance door + 2 or more additional covered door assemblies

Points Claimed: 5

Documentation Required - Projection factor calculations.

Practice 602.2 Roof overhangs

Roof overhangs are provided per table.

Conditions met

Points Claimed: 4

Documentation Required - None.

Practice 602.3 Foundation drainage

Where required by the ICC IRC or IBC for habitable and usable spaces below grade, exterior drain tile is installed. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - Plans showing exterior drain tile for foundation, if applicable.

Interior and exterior foundation perimeter drains sloped to discharge to daylight, dry well, or sump pit.

Conditions met

Points Claimed: 4

Documentation Required - Plans showing exterior drain tile for foundation, if applicable.

Practice 602.4 Drip edge

Drip edge is installed at all eaves & gable edges.

Conditions met

Points Claimed: 3

Documentation Required - None.

Practice 602.5 Roof water discharge

Gutter/downspout/splash blocks grading carry water a minimum of 5' from perimeter foundation.

Conditions met

Points Claimed: 4

Documentation Required - None.

Practice 602.6 Finished grade

Finish grade at all sides is sloped a minimum of 6" (150 mm) of fall within 10'. Mandatory for certification.

Positive drainage will be provided at all sides of building as required

Points Claimed: 0

Documentation Required - None

Practice 602.7 Termite barrier

Continuous physical termite barrier installed in areas w/ termites.

Conditions met

Points Claimed: 4

Documentation Required - None.

Practice 602.8 Termite-resistant materials

Termite-resistant materials are used in portions of the building.

Moderate to heavy termites - foundation, all structural walls, floors, concealed roof spaces, decks, and exterior claddings within the first 3 feet

Points Claimed: 4

Documentation Required - None.

Practice 602.9 Water-resistive barrier

Where required by the ICC IRC or IBC, a water-resistive barrier and/or drainage plane system is installed behind exterior veneer and/or siding. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - Plans, specification, or scope of work showing WRB or drainage plane.

Practice 602.10 Ice barrier

When ice damming is a problem, ice barrier at roof eaves extends at a min. of 24" inside the exterior wall. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - Plans showing ice barrier.

Practice 602.11 Foundation waterproofing

Enhanced foundation waterproofing is installed.

Conditions met

Points Claimed: 4

Documentation Required - Plans, specification, or scope of work showing enhanced foundation coating.

Practice 602.12 Flashing

Flashing details on plans & installed at ALL as applicable: exterior fenestrations/doors; roof valleys; deck/balcony intersections; roof/wall & roof/chimney intersections; drip cap above windows/doors not flashed or protected by overhangs.

Conditions met

Points Claimed: 6

Documentation Required - Plans showing flashing details at all required locations.

Practice 602.13 Roof surfaces

ENERGY STAR cool roof or landscaped roof is constructed.

Conditions met

Points Claimed: 3

Documentation Required - When used, manufacturer's literature showing Energy Star Cool Roof or equivalent.

Practice 602.14 Recycling

Occupant recycling is facilitated by one or more of the following methods:

A built-in recycling collection space in each kitchen & an aggregation/pick-up space in garage or other area are implemented.

Conditions met

Points Claimed: 3

Documentation Required - None.

Section 603 - Reused or Salvaged Materials

Practice 603.2 Salvaged materials

Material and labor cost of salvaged materials is equal to or exceeds 1% of the total construction cost.

Conditions met

Points Claimed: 3

Documentation Required - List of the type and quantity of salvaged materials used on this building Demonstrate that the installed cost of the salvaged materials to be = or >1% of total construction costs.

Practice 603.3 Scrap materials

Central storage area or dedicated bins for sorting and reuse of scrap building material provided.

Conditions met

Points Claimed: 4

Documentation Required - None.

Section 604 - Recycled-Content Building Materials

Practice 604.1 Recycled Content

Building materials w/ recycled content are used for at least 2 minor components.

50% to <75%

Points Claimed: 2

Documentation Required - List of materials used with recycle content. Manufacturer's literature showing recycle content.

Building materials w/ recycled content are used for at least 2 major components.

50% to <75%

Points Claimed: 4

Documentation Required - List of materials used with recycle content. Manufacturer's literature showing recycle content.

Section 605 -Recycled Construction Waste

Practice 605.1 Construction waste management plan

Construction waste management plan posted at the jobsite & implemented with a goal of recycling a min. of 50% of construction and land-clearing waste.

Conditions met

Points Claimed: 6

Documentation Required - C & D waste management plan and evidence that at least 50% of waste materials are being recycled or salvaged. Typical evidence would be receipts for landfill with recycling weights.

Practice 605.3 Recycled construction materials

Construction materials are recycled offsite.

Minimum of 2 types of materials are recycled

Points Claimed: 3

Documentation Required - Copy of agreement with and pick-up tickets by recycling contractor, list of material types sent to recycler.

Section 606 -Renewable Materials

Practice 606.1 Biobased products

Biobased products are used. 8 points maximum awarded.

Total Points Claimed for this Item: 3

2 types biobased materials used, each for >0.5% of project's projected building material cost

Points Claimed: 3

Documentation Required - List of biobased materials used including material cost of each, % of total material cost, and manufacturer's literature demonstrating biobase. Statement of total building material cost.

Practice 606.2 Wood-based products

Wood or wood-based products are certified to the requirements of one of the following recognized product programs:

- a. [AFF American Tree Farm System®](#)
- b. [Canadian Standards Association's Sustainable Forest Management System Standards \(CAS Z809\)](#)
- c. [Forest Stewardship Council \(FSC\)](#)
- d. [Program for Endorsement of Forest Certification Systems \(PEFC\)](#)
- e. [Sustainable Forestry Initiative Program \(SFI\)](#)
- f. other product programs recognized by PEFC

A minimum of 2 wood or wood-based products used for minor elements are certified to the requirements of a recognized product program.

Conditions met

Points Claimed: 3

Documentation Required - List of certified wood product types used and literature or stamp showing certification.

Major: _____

Major: _____

Minor: _____

Minor: _____

A minimum of 2 wood or wood-based products used for major elements are certified to the requirements of a recognized product program.

Conditions met

Points Claimed: 4

Documentation Required - List of certified wood product types used and literature or stamp showing certification.

Major: _____

Major: _____

Minor: _____

Minor: _____

Practice 606.3 Manufacturing energy

Materials used for major components are manufactured using a min. of 33% of the primary manufacturing process energy from renewable sources, combustible waste sources, or renewable energy credits (RECs).

≥3 materials

Points Claimed: 6

Documentation Required - List materials used and provide manufacturer's literature showing source and amount of energy used in manufacturing.

Section 607 -Resource-Efficient Materials

Practice 607.1 Resource-efficient materials

Products containing fewer materials are used to achieve the same end-use requirements as conventional products.

≥3 products

Points Claimed: 9

Documentation Required - List materials used.

Section 608 -Indigenous Materials

Practice 608.1 Indigenous materials

Indigenous materials are used for major elements of the building.

2 types of materials

Points Claimed: 4

Documentation Required - List materials used and documentation showing location of source.

Comments To Verifier - Comex Texturi (Kwal Paint) External Stucco manufactured in Bohman, TX All lumber from Huber in Broken Bow Also looking at Advantech Flooring system and Zip System Roof from Huber. Concrete

Section 609 -Life Cycle Analysis

Practice 609.1 Life cycle analysis

A more environmentally preferable product selected based upon a Life Cycle Assessment (LCA).

Whole building LCA analysis

Points Claimed: 15

Documentation Required - Life cycle assessment report showing preference for product(s) used instead of conventional materials.

Section 610 -Innovative Practices

Practice 610.1 Manufacturer's environmental management system concepts

Product manufacturer's operations are ISO 14001 certified. The value of building products from ISO 14001 facilities is 1% or more of the est. total building materials cost.

≥2% and <3%

Points Claimed: 2

Documentation Required - List of materials used including manufacturer, cost of materials, and % of total materials cost. Copy of ISO14001 certificate for each material claimed. Also provide statement of total material cost.

Total points claimed in Chapter 6 - Resource Efficiency: **173**

Point Minimums for this Chapter: Bronze: 45 Silver: 79 Gold: 113 Emerald: 146

CHAPTER 7 - Energy Efficiency

Section 701 -Minimum Energy Efficiency Requirements

Practice 701.3 Mandatory practices: Third-party Review

A review of the design has been conducted by a third party to confirm that the intent of the Standard with respect to energy provisions has been met.

Conditions met

Points Claimed: 0

Documentation Required - None.

Practice 701.4.1 Mandatory practices: HVAC systems

Space heating/cooling sized per ACCA Manual J.

Conditions met

Points Claimed: 0

Documentation Required - Provide software output report using ACCA Manual J or equivalent with recommended HVAC equipment sizes.

Radiant/hydronic heating system designed using industry-approved guidelines. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - " When primary heat source in the building IS a radiant or hydronic heating system, provide evidence (e.g., statement from qualified professional) of system design using industry-approved guidelines. Check N/A box when primary heat source in the building IS NOT a radiant or hydronic heating system."

Practice 701.4.2 Mandatory practices: Duct systems

Ducts sealed with UL181 tape, mastic, or gaskets. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - " For buildings with ducted systems provide product spec or trade contractor's scope of work to confirm use of duct sealing using UL 181 tape, mastic, gaskets, or an IRC or ICC/IMC approved system. If building uses NO DUCTS check N/A box at right. "

Building cavities are not used as supply ducts. Mandatory for certification.

Conditions met

Points Claimed: 0

Documentation Required - None

Practice 701.4.3 Mandatory practices: Insulation and air sealing

Insulation is installed in accordance with the manufacturer's instructions or local code. Mandatory for certification.

Conditions met

Points Claimed: 0

Documentation Required - Provide insulation installation requirements, either manufacturer's instructions or specific local code guidance. Evidence of an approved local code insulation inspection can be used as acceptable evidence for this verification.

Shafts opening to unconditioned space are sealed with blocking or flashing; gaps are sealed with caulk or foam. Mandatory for certification.

Conditions met **Points Claimed: 0**

Documentation Required - None.

Floors: a) insulation installed to maintain contact w/ subfloor underside, enveloping ductwork & w/out compression or air gaps; b) batt & loose-fill insulation is held in place by permanent attachments. Mandatory for certification, if applicable.

Conditions met **Points Claimed: 0**

Documentation Required - If building has NO FLOORS requiring insulation check N/A box at right.

Crawlspace wall insulation permanently attached to the walls. Exposed earth in unvented crawlspaces covered with continuous vapor retarder with overlapping joints that are taped or masticed. Mandatory for certification, if applicable.

Conditions do not apply **Points Claimed: 0**

Documentation Required - If building has NO CRAWL SPACE check N/A box at right. "

Windows and doors: Caulking, gasketing, flashing tape, foam sealant, or weatherstripping forms a complete air barrier. Mandatory for certification.

Conditions met **Points Claimed: 0**

Documentation Required - Provide window and door installation detail on plans showing how installation will form a complete air barrier.

Band & rim joists insulated & air sealed. Mandatory for certification, if applicable.

Conditions met **Points Claimed: 0**

Documentation Required - Plan details to show how band or rim joists are to be insulated and sealed. If building has NO BAND JOISTS OR RIM JOISTS check N/A box at right.

(a) Sill sealer is installed between foundation and sill plate; AND (b) Seal the bottom plate of exterior walls. Mandatory for certification, if applicable.

Conditions met **Points Claimed: 0**

Documentation Required - Product spec to confirm required use of flexible sill sealer or other material between foundation and sill plate and the bottom plate of exterior walls. If building has NO SILL PLATE OR FRAMED WALLS check N/A box at right.

Skylight shafts and knee walls are insulated to the same level as the exterior walls. Mandatory for certification, if applicable.

Conditions met **Points Claimed: 0**

Documentation Required - If R values are not obvious through insulation label provide plan details to show insulation is at same level as exterior walls before checking box. If building has NO SKYLIGHTS OR KNEE WALLS check N/A box at right.

Code required building envelope insulation and air sealing are not disrupted at exterior architectural features such as stairs & decks. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - Provide details of insulation and air sealing at penetrations. If building has NO stairs, decks or other architectural features that penetrate the envelope check N/A box at right.

Attic access (except unvented attics), knee wall door, or drop-down stair is covered with insulation and gasketed. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - If building has NO ATTIC OR KNEE WALL DOORS OR A DROP-DOWN ATTIC STAIR in the thermal envelope check N/A box at right.

Recessed light fixtures that penetrate the thermal envelope are airtight, IC-rated, and sealed with gasket, caulk, or foam. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - Product info to confirm all fixtures penetrating the envelope are IC-rated and airtight. If building has NO RECESSED LIGHT FIXTURES that penetrate the envelope, check N/A box at right.

Where ceiling/attic assemblies or designs have eave vents, baffles minimize air movement into or under the insulation. Mandatory for certification, if applicable.

Conditions met

Points Claimed: 0

Documentation Required - None. For buildings with NO VENTED CEILINGS AND/OR ATTICS, check N/A box at right.

Practice 701.4.4 Mandatory practices: Fenestration

Use the [ENERGY STAR Window Requirements Tool](#) to determine the window requirements for your zip code.

NFRC-certified windows, exterior doors, skylights, and tubular daylighting devices (TDDs) are ENERGY STAR, or Table 701.4.4.1. Mandatory for certification.

Conditions met

Points Claimed: 0

Documentation Required - Labels on units or other documentation.

Practice 701.1.1-2 Performance vs. Prescriptive

A building complying with the Performance Path (Section 702) must exceed the ICC IECC by at least 15%. A building complying with the Prescriptive Path must obtain a minimum of 30 points from Section 703. Both Paths require min. 2 items from Section 704.

Performance Path chosen. This project is eligible to achieve the Bronze, Silver, Gold, or Emerald Level.

Points Claimed: 0

Documentation Required - None.

Section 702 -Performance Path

Practice 702.2 Performance Path

Points from the Performance Path (section 702) shall not be combined with points from the Prescriptive Path (section 703).

A documented analysis shows performance in excess of IECC by at least 15%, 30%, 50%, or 60%.

60%

Points Claimed: 120

Documentation Required - All buildings using this path must have their performance claim supported by REM/Rate or Energy Gauge output reports prepared and signed by a qualified energy professional. If performance claim is 1) not to be supported by performance test data, and 2) not to be based on energy recovery, 1) the qualified professional must assume in their energy simulation an SLA of 0.00036 for the infiltration, and 2) no energy recovery for the ventilation system for either the REM/Rate or Energy Gauge output report. Builder is to check the appropriate box below:
Performance test results will be provided to verifier.
An energy recovery system will be installed in this building.
default SLA = 0.00036 without energy recovery used **OR**
Test results must be submitted for performance claims which use an infiltration other than SLA = 0.00036, or for buildings that claim points for simulate energy recovery.
performance test results per Section 704.6.2.1 to support the claimed SLA factor infiltration.

Section 704 -Additional Practices

Practice 704.2.1 Lighting & appliances: Hard-wired lighting

Hard-wired lighting is in accordance with one of the following.

Minimum of 50% of the total hard-wired lighting fixtures qualify as ENERGY STAR® or equivalent

Points Claimed: 8

Documentation Required - None.

Practice 704.2.2 Lighting & appliances: Recessed light fixtures

of recessed light fixtures penetrating the thermal envelope are less than 1 per 400 square feet of conditioned floor area & in accordance with Section 701.4.3.4(2).

Conditions met

Points Claimed: 2

Documentation Required - Using the Z765 calculation provide statement of the number of recessed light fixtures permitted to penetrate the thermal envelope.

Practice 704.2.3 Lighting & appliances: Occupancy & motion sensors

Occupancy sensors are installed on indoor lights. Photo or motion sensors are installed on outdoor lights to control lighting.

25% of lighting

Points Claimed: 2

Documentation Required - None.

Practice 704.2.4 Lighting & appliances: Skylights

TDD or a skylight with sealed, insulated, low-E glass installed in all rooms without windows.

Conditions met

Points Claimed: 2

Documentation Required - Provide manufacturer's specification on any installed TDDs or skylights documenting sealed, insulated low-E glass.

Practice 704.2.5 Lighting & appliances: ENERGY STAR® appliances

ENERGY STAR or equivalent appliance(s) are installed.

Refrigerator

Points Claimed: 5

Dishwasher

Points Claimed: 2

Washing machine

Points Claimed: 4

Documentation Required - Provide product spec or ENERGY STAR label for appliance.

Practice 704.3.1 Solar space heating and cooling

Building orientation, glazing size, & overhangs are in accordance with sun tempered design. Points must be claimed for this item to claim points for Section 704.3.1.4.

Conditions met

Points Claimed: 5

Documentation Required - Provide design documentation by qualified solar design professional that building complies with all 9 design conditions of 704.3.1.1.

Passive cooling design features are incorporated.

Windows and/or venting skylights are located to facilitate cross ventilation

Points Claimed: 1

Solar reflective roof or radiant barrier per VRG

Points Claimed: 1

Internal exposed thermal mass is in accordance with VRG

Points Claimed: 1

Documentation Required - Check boxes above for features incorporated. When thermal mass is claimed provide calculation. MAX PTS. = 4"

Passive solar heating design practices are implemented.

Conditions met

Points Claimed: 4

Documentation Required - 704.3.1.4 Passive solar heating design. In addition to the sun-tempered design features in Section 704.3.1.1, all of the following are implemented: Additional glazing, no greater than 12 percent, is permitted on the south wall. This additional glazing is in accordance with the requirements in Section 704.3.1.1. Additional thermal mass for any room with south-facing glazing of more than 7 percent of the finished floor area is provided in accordance with the following: (a) Thermal mass is solid and a minimum of 3 inches (76 mm) in thickness. Where two thermal mass materials are layered together (e.g. ceramic tile on concrete base) to achieve the appropriate thickness, they are fully adhered to (touching) each other. (b) Thermal mass directly exposed to sunlight is provided in accordance with the following minimum ratios: " 4 Provide documentation from a solar design professional that each of items 1, 2, and 3 in column 1 have been included in this building's design. Provide brief summary for the verifier outlining how each element has been implemented. Verify the building's design has incorporated all items in 1, 2, and 3 in column 1. Inspect to verify plans have been implemented as designed.

Practice 704.3.3.2 Other on-site renewable energy sources

Other on-site renewable energy source is installed (e.g., wind energy, active solar space heat, etc.). 1 point awarded per every 200 watts of the system.

Total Points Claimed for this Item: 17

# of watts	3400 * 1 points
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Documentation Required - Provide manufacturer's literature with capacity of installed renewable energy source.

Comments To Verifier - WePower Falcon 3.4KW Vertical Axis Wind Turbine if approved by Rose Creek Architectural Review Board. <http://www.wepower.us/files/pdf/wepowerFALCON3point4.pdf>

Practice 704.4 Ducts

Duct system is sized, designed, and installed in accordance with ACCA Manual D.

Conditions met	Points Claimed: 5
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Documentation Required - Provide Manual D output report and duct layout showing supply and return sizes.

Ductwork meets ALL of the following: 1) building cavities are not used as return ductwork; 2) ducts & equipment are within conditioned space; 3) ductwork is not installed in exterior walls.

Conditions met	Points Claimed: 12
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Documentation Required - None.

Return ducts/transfer grilles in all rooms with a door except baths, kitchens, closets, pantries, & laundry.

Conditions met	Points Claimed: 5
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Documentation Required - None.

Practice 704.5 HVAC design and installation

ACCA Manual S used to select heating and/or cooling equipment.

Conditions met	Points Claimed: 1
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Documentation Required - Provide Manual S or equivalent output report showing recommended heating and cooling equipment.

HVAC contractor and service technician are certified by a nationally or regionally recognized program.

Conditions met

Points Claimed: 1

Documentation Required - Provide evidence of both contractor's and technician's certification by NATE, BPI, RPA, or manufacturer's training program.

Perf. verified w/ ALL: start-up procedure per mfg.; refrig. charge; burner set to fire at nameplate input; air handler setting/fan speed per mfg.; total airflow w/in 10% design flow; external system static does not exceed capability @ rated flow.

Conditions met

Points Claimed: 3

Documentation Required - Provide signed start-up report that documents all 6 of the required items. Include performance test results to support 5 and 6.

Practice 704.6.1 Installation and performance verification

3rd party inspection verifies ALL of the following, as applicable: ducts per ICC IRC or IMC & ducts are sealed; bldg envelope air sealing installed; insulation installed in accordance w/ 703.1.2; windows, skylights, doors are flashed/caulked/sealed.

Conditions met

Points Claimed: 5

Documentation Required - Provide signed 3rd party inspection of all 4 required areas at rough and final inspections. Check here if done by verifier without an inspection report."

Practice 704.6.2 Third-party testing to verify performance

Bldg env. leakage rate demon. by blower door test. The following are required.: whole bldg ventilation provided; fossil fuel furnace & water heater sealed combustion/power vented; fireplaces & fuel burning appliances in accordance with Section 901.2.

Maximum leakage rate is 1 ACH50

Points Claimed: 15

Documentation Required - Provide blower test results by qualified technician to support claimed points.

The entire central HVAC duct system tested for leakage at 0.1 inches w.g.

6% for ductwork entirely outside the buildings thermal envelope

Points Claimed: 15

Documentation Required - Provide duct leakage test results by qualified technician to support claimed points. Check one box in first column.

Balanced HVAC air flows are demonstrated by flow hood. Test results are in accordance with both of: 1) each supply & return register within 25% of design, AND 2) total airflow is within 10% of design flow.

Conditions met

Points Claimed: 8

Documentation Required - Provide start up report signed by qualified HVAC technician showing design and actual flows at each supply and return indicating compliance with balanced flow requirement.

Section 705 -Innovative Practices

Practice 705.1 Energy consumption control

Whole bldg or dwelling unit device installed to controls or monitors energy consumption. 7 points maximum awarded.

Total Points Claimed for this Item: 2

Programmable communicating thermostat

Points Claimed: 2

Documentation Required - Provide manufacturer's product specification for T-stat.
Provide manufacturer's specification for energy monitoring device.
Provide manufacturer's product specification for energy management control system.

Practice 705.2 Renewable energy service plan

Renewable energy service plan is provided.

Builder uses renewable energy service plan for interim electric service. The builder's local administrative office has renewable energy service.

Points Claimed: 2

The buyer of the building selects a renewable energy service plan provided by the utility.

Points Claimed: 5

Documentation Required - Provide evidence (e.g., utility bills) builder has selected renewable energy service for both construction and local office for temporary electric service during construction.
Provide evidence of building owner or buyer's selection of renewable energy service plan.

Total points claimed in Chapter 7 - Energy Efficiency: **253**

Point Minimums for this Chapter: Bronze: 30 Silver: 60 Gold: 100 Emerald: 120

CHAPTER 8 - Water Efficiency

Section 801 -Indoor and Outdoor Water Use

Practice 801.1 Indoor hot water usage

Indoor hot water usage is reduced.

Pipe runs >40 feet from water heater to fixture locations aided by an on-demand hot water recirculation system

Points Claimed: 1

Documentation Required - When no plumbing code inspection approval is available at the site, provide plumber's certification that pipes are properly sized.
Statement from a qualified professional that the requirement has been met. Check appropriate box in first column.
None. Check appropriate box in first column.

Practice 801.2 Water conserving appliances

ENERGY STAR® or equivalent water conserving appliances are installed.

ALL dishwashers installed are ENERGY STAR (or equivalent). 2 points awarded per dishwasher.

2 dishwashers installed

Points Claimed: 4

Documentation Required - None.

All washing machines installed are ENERGY STAR (or equivalent).

All washing machines installed are ENERGY STAR® or equivalent & have a water factor of ≤6.0

Points Claimed: 12

Documentation Required - None.

Practice 801.3 Food waste disposers

Food waste disposer is installed at primary kitchen sink.

Conditions met

Points Claimed: 1

Documentation Required - None.

Practice 801.4 Showerheads

The total showerhead flow rate in each shower compartment is per 801.4(1) or 801.4(2) at 80 psi. Showers have automatic compensating valve designed to provide scald protection.

3 or more shower compartments comply

Points Claimed: 3

Documentation Required - Manufacturer's specifications showing compliance.

ALL shower compartments in the home comply with 801.4(1&2).

All shower compartments installed meet the above conditions and are 2.0 to <2.5 gpm

Points Claimed: 1

Documentation Required - Manufacturer's specifications showing compliance.

Practice 801.5 Faucets

Self-closing valve, motion sensor, metering, or pedal-activated faucet installed.

1 fixture installed

Points Claimed: 1

Documentation Required - Manufacturer's specs showing compliance.

Practice 801.6 & 802.2 Toilets & Urinals

Points awarded for either 801.6 OR 802.2 but not both.

Water closets installed with effective flush volume of &8804;1.28 gallons when tested w/ ASME A112.19.2 & ASME A112.19.14 & EPA WaterSense *Tank-Type High-Efficiency Toilet* OR composting or waterless

toilets &/or urinals installed.

3 or more water closets installed

Points Claimed: 18

Documentation Required - Manufacturer's specs showing compliance.

ALL water closets have an effective flush volume of 1.28 gallons or less and all urinals have a flush volume of 0.5 gallons or less **OR** ALL fixtures are waterless toilets and/or urinals. Mandatory for Gold or Emerald certification.

All water closets have an effective flush volume of 1.28 gallons or less AND all urinals have a flush volume of 0.5 gallons or less

Points Claimed: 6

Documentation Required - None.

Practice 801.7.1 Low-volume irrigation system

Low-volume irrigation is installed for each landscape type utilized. 10 points maximum awarded.

Total Points Claimed for this Item: 10

High distribution uniformity (DU) rotating spray heads

Points Claimed: 2

Drip irrigation

Points Claimed: 4

Bubblers

Points Claimed: 4

Documentation Required - Irrigation plans showing all types and locations of low-flow irrigation system. Check all that apply in first column.

PTS. = 10

Practice 801.7.2 - 4 Irrigation Systems

Irrigation system is per both of the following: 1) designed by a professional per WaterSense, and 2) installed per WaterSense program.

Conditions met

Points Claimed: 3

Documentation Required - Irrigation plan designed by a qualified professional and installer documentation of compliance.

Irrigation system is zoned separately for turf and bedding areas.

Conditions met

Points Claimed: 2

Documentation Required - None.

The irrigation system(s) is controlled by a smart controller.

Evapotranspiration (ET) based irrigation controller with a rain sensor

Points Claimed: 4

Documentation Required - Irrigation plans showing either an Evapotranspiration (ET) based irrigation controller with a rain sensor, or a soil moisture sensor based irrigation controller.

Landscape plan in accordance with Section 503.5. No irrigation on any plans.

Practice 801.8 Rainwater collection & distribution

Rainwater collection and distribution is provided.

Rainwater is collected and used

Points Claimed: 6

Documentation Required - None.

Practice 801.9 Water filters

Water filter is installed to improve water quality for the whole building or whole dwelling unit.

Conditions met

Points Claimed: 1

Documentation Required - None.

Section 802 -Innovative Practices**Practice 802.1 Gray water**

Gray water (as specified in ICC IRC, Appendix O) is separated and reused, as permitted by local building code.

Irrigation from reclaimed or recycled water on-site

Points Claimed: 10

Documentation Required - None.

Total points claimed in Chapter 8 - Water Efficiency: **83**

Point Minimums for this Chapter: Bronze: 14 Silver: 26 Gold: 41 Emerald: 60

CHAPTER 9 - Indoor Environmental Quality**Section 901 -Pollutant Source Control****Practice 901.1 Space and water heating options**

Natural draft heating or water heater is not located in conditioned space unless in separate room with outdoor air source.

Conditions met

Points Claimed: 5

Documentation Required - None.

Air handling/return ducts are not located in the garage, unless in isolated, air-sealed room w/ outside air source.

Conditions met

Points Claimed: 5

Documentation Required - None.

Heat pump air handler is installed.

Heat pump air handler in conditioned space

Points Claimed: 5

Documentation Required - None.

Practice 901.2 Fireplaces and fuel burning appliances

Fireplaces and fuel burning appliances (except cooking appliances, clothes dryers, water heaters, and furnaces) located in conditioned space are code compliant, vented to the outdoors, and have adequate combustion and ventilation air provided to minimize spillage or back-drafting, in accordance with the following:

All of the following items are mandatory, if applicable, for certification.

Natural gas & propane fireplaces with power or direct vented have permanent fixed glass fronts or gasketed doors per ANSI Z21.88a/CSA 2.33a or ANSI Z21.50/CSA 2.22. Mandatory, if applicable, for certification.

Conditions met

Points Claimed: 7

Documentation Required - Manufacturer's literature or label on unit indicating CSA compliance.

Factory-built, wood-burning fireplaces per UL 127 and EPA certified. Mandatory, if applicable, for certification.

Conditions met

Points Claimed: 6

Documentation Required - None.

Woodstove & fireplace inserts per UL 1482 & per EPA Certification & WAC 173-433-100(3). Mandatory, if applicable, for certification.

Conditions do not apply

Points Claimed: 0

Documentation Required - Manufacturer's literature or label on unit indicating UL, EPA and Washington State compliance.

Pellet (biomass) stoves/furnaces per ASTM E1509 or EPA certified. Mandatory, if applicable, for certification.

Conditions do not apply

Points Claimed: 0

Documentation Required - Manufacturer's literature or label on unit indicating ASTM or EPA compliance.

Masonry heaters per ASTM E1602 and ICC IBC, Section 2112.1. Mandatory, if applicable, for certification.

Conditions do not apply

Points Claimed: 0

Documentation Required - Manufacturer's literature or label on unit indicating ASTM and IBC 2112.1 compliance.

Fireplaces, woodstoves, pellet stoves, or masonry heaters are not installed. Mandatory, if applicable, for certification.

Conditions do not apply

Points Claimed: 0

Documentation Required - None.

Practice 901.2.1(2)(a) Wood burning fireplaces

Wood-burning fireplaces have gasketed doors, outside combustion air, and means for sealing the flue to minimize interior air loss when not in operation.

Conditions met

Points Claimed: 4

Documentation Required - None.

Practice 901.3 Garages

Where installed in the common wall between the attached garage and conditioned space, the door is tightly sealed and gasketed.

Conditions met

Points Claimed: 2

Documentation Required - None.

A continuous air barrier is provided between walls and ceilings separating the garage space from the conditioned living spaces.

Conditions met

Points Claimed: 2

Documentation Required - None.

100 cfm ducted, or 70 cfm unducted wall exhaust fan vented to outdoors for continuous operation or controls activate operation for a min. 1-hr. Ducted fan flow & duct size per Appendix A.

Conditions met

Points Claimed: 4

Documentation Required - Manufacturer's literature/specifications for fan.

Practice 901.4(1) Structural plywood & OSB

A minimum of 85% of material within a product group (i.e., wood structural panels, countertops, composite trim/doors, custom woodwork, and/or component closet shelving) is manufactured in accordance with the following.

Structural use plywood per PS 1 or PS 2. OSB per PS 2. All marked Exposure 1 or Exterior. Mandatory for certification.

Conditions met

Points Claimed: 0

Documentation Required - None.

Practice 901.4(2-6) Wood materials

A minimum of 85% of material within a product group (i.e., wood structural panels, countertops, composite trim/doors, custom woodwork, and/or component closet shelving) is manufactured in accordance with the following. 10 points maximum awarded.

Total Points Claimed for this Item: 10

# of product groups where particleboard and medium density fiberboard is manufactured & labeled in accordance with CPA A208.1 & CPA A208.2	3 * 2 points
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# of product groups where hardwood plywood is in accordance with HPVA -HP-1 & HUD Title 24, Parth 3280	2 * 2 points
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Documentation Required - None

Practice 901.5 Carpets

Wall-to-wall carpeting is not installed adjacent to water closets and bathing fixtures. Mandatory for certification.

Conditions met	Points Claimed: 0
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Documentation Required - None.

A minimum of 85% of installed carpet area, padding, or adhesives per CDPH 01350, as certified by a third-party program, such as the CRI *Green Label Plus Indoor Air Quality Program*.

Carpet	Points Claimed: 6
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Carpet cushion	Points Claimed: 2
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Carpet adhesives	Points Claimed: 2
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Documentation Required - Manufacturer's literature showing 3rd party certification. Scope of work or specification showing products to be installed.

Practice 901.6 Hard-surface flooring

At least 85% installed hard-surface flooring per CDPH 01350, certified by a 3rd party.

Conditions met	Points Claimed: 6
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Documentation Required - Manufacturer's literature showing 3rd party certification. Scope of work or specification showing products to be installed.

Practice 901.7 Wall coverings

At least 85% of wall coverings per CDPH 01350, certified by 3rd party.

Conditions met	Points Claimed: 4
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Documentation Required - Manufacturer's literature showing 3rd party certification. Scope of work or specification showing products to be installed.

Practice 901.8 Architectural coatings

At least 85% of site applied interior architectural coatings per either 901.8.1 or 901.8.2.

Coatings per CDPH 01350, certified by 3rd party e.g. GREENGUARD Environmental Institute's *Children and Schools Certification Program* or the SCS Indoor Advantage Gold Program

Points Claimed: 8

Documentation Required - List of all interior coatings used showing amount, %, and VOC criteria. Manufacturer's literature showing VOC as listed.

Practice 901.9 Adhesives and sealants

Exterior low-VOC adhesives and sealants used for subfloors & exterior.

GS-36

Points Claimed: 5

Documentation Required - List of all exterior sealants used showing amount, %, and VOC criteria. Manufacturer's literature showing VOC as listed.

Interior low-VOC adhesives and sealants are used.

GS-36

Points Claimed: 5

Documentation Required - List of all interior sealants used showing amount, %, and VOC criteria. Manufacturer's literature showing VOC as listed.

Practice 901.10 Cabinets

At least 85% of kitchen & bath vanity cabinets follow IAQ compliance.

Kitchen & bath vanity cabinets are installed that contain no added urea formaldehyde or are in accordance with GGPS.EC.010.R0, ASTM D 6670, or equivalent

Points Claimed: 5

Documentation Required - Manufacturer's literature or product marking showing compliance with one of the listed criteria.

Practice 901.11 Insulation

Formaldehyde emissions of insulation is in accordance with CDPH 01350.

Formaldehyde emissions of wall, ceiling, and floor insulation materials per CDPH 01350, certified by 3rd party e.g. GREENGUARD Environmental Institute's *Children and Schools Certification Program* or the ACS Indoor Advantage Gold Program

Points Claimed: 4

Documentation Required - Manufacturer's literature or product marking showing compliance.

Practice 901.12 Carbon monoxide (CO) alarms

CO alarm is hard-wired w/ a battery back-up in the immediate vicinity of each bedroom per NFPA 720 & devices certified by 3rd party per CSA 6.19 or UL 2034.

Conditions met

Points Claimed: 3

Documentation Required - Manufacturer's literature or product marking showing NFPA and CSA or UL compliance.

Practice 901.13 Building entrance pollutants control

Fixed grilles/mats (removable for cleaning) are installed to controll pollutants at all main building entrances.

Interior grilles or mats are installed in a fixed manner and may be removable for cleaning

Points Claimed: 1

Documentation Required - None.

Section 902 -Pollutant Control**Practice 902.1 Spot ventilation**

All bathrooms are vented to the outdoors. Minimum ventilation rate = 50 cfm or 20 cfm if continuous operation. Mandatory for certification.

Conditions met

Points Claimed: 0

Documentation Required - Manufacturer's literature/specifications for the fan showing cfm.

Clothes dryers are vented to the outdoors. Mandatory, if applicable, for certification.

Conditions met

Points Claimed: 0

Documentation Required - None.

Kitchen exhaust units are ducted outdoors & rate of 100 cfm or 25 cfm if continuous operation.

Conditions met

Points Claimed: 8

Documentation Required - Manufacturer's literature/specifications showing cfm.

Bathroom or laundry exhaust fan is provided w/ an automatic timer or humidistat.

3 or more devices installed

Points Claimed: 9

Documentation Required - None.

All kitchen, bath & laundry fans verified to specification.

Conditions met

Points Claimed: 8

Documentation Required - 3rd party test report showing compliance as installed.

Practice 902.1.4 ENERGY STAR® exhaust fans

Exhaust fans are ENERGY STAR®, as applicable. 6 points maximum awarded.

Total Points Claimed for this Item: 6

ENERGY STAR® or equivalent fans

5 * 2 points

Documentation Required - Energy Star label or manufacturer's literature.

Practice 902.2 Building ventilation systems

Whole building ventilation systems is implemented per Appendix B.

Energy-recovery ventilator

Points Claimed: 17

Documentation Required - Manufacturer's installation instructions.

Vent system tested verify fan flow per Appendix B.

Conditions met

Points Claimed: 8

Documentation Required - Test report by qualified professional showing compliance as installed.

MERV filters 8 or greater on central air systems. Designer or installer to verify that quipment can accommodate the greater pressure drop.

Conditions met

Points Claimed: 3

Documentation Required - Designer/installer certification of system capability for installed MERV filters.

Practice 902.3 Radon control

Radon control measures are in accordance with [ICC IRC Appendix F](#). See the [EPA Map of Radon Zones](#) to find the level of radon potential for your project area.

Buildings located in Radon Zone 1 have a radon system installed. Mandatory, if applicable, for certification.

Not applicable (building not located in Zone 1)

Points Claimed: 0

Documentation Required - None for active system. Plans/specifications for passive systems.

Practice 902.4 HVAC system protection

HVAC system protection measures are performed.

HVAC supply registers (boots), return grilles, and rough-ins are covered during construction activities to prevent dust and other pollutants from entering the system

Points Claimed: 3

Documentation Required - None.

Invoice from cleaning contractor showing cleaning and coil inspection.

Practice 902.5 Central vacuum systems

Central vacuum system is installed and vented to the outside.

Conditions met

Points Claimed: 5

Documentation Required - None**Practice 902.6 Living space contaminants**

The living space is sealed to prevent unwanted contaminants.

Attic access, knee wall door, or drop down stair is caulked, gasketed, or otherwise sealed

Points Claimed: 2

All penetrations (e.g., top plates, HVAC register boots, recessed can lights) are sealed in the attic/ceiling

Points Claimed: 2

All penetrations (e.g., top plates, HVAC register boots) are sealed in the wall

Points Claimed: 2

All penetrations (e.g., top plates, HVAC register boots) are sealed in the floors

Points Claimed: 2

Documentation Required - None.**Section 903 -Moisture Management: Vapor, Rainwater, Plumbing, HVAC****Practice 903.1 Tile backing materials**

Tile backing materials installed under tiled surfaces in wet areas are in accordance with ASTM C1178, C1278, C1288, or C1325. Mandatory for certification.

Conditions met

Points Claimed: 0

Documentation Required - Manufacturer's literature/specification/labeling showing ASTM compliance. Plans/specifications and scope of work showing installation.

Practice 903.2 Capillary breaks

A capillary break and vapor retarder are installed at all concrete slabs in accordance with Sections 903.2.1(1) or 903.2.1(2), as modified by Section 903.2.1(3). Mandatory, if applicable, for certification.

Conditions met

Points Claimed: 0

Documentation Required - Plans/specifications AND scope of work(s) detailing how this mandatory requirement has been met. Photo(s) showing installation. Report from certified professional when 3(a) chosen.

Capillary break is added on footing.

Conditions met

Points Claimed: 3

Documentation Required - Plans/specifications AND scope of work(s) detailing how this requirement has been met. Photo(s) showing installation.

Practice 903.3 Crawlspace

Damp-proof walls are provided below finished grade. Joints of vapor retarder overlap a minimum of 6 inches (152 mm) and are taped. Mandatory for certification, if there is a crawlspace that extends below finished grade.

Conditions met

Points Claimed: 0

Documentation Required - None.

Practice 903.4 Moisture control measures

Walls are not enclosed (e.g. with drywall) if the insulation has a high moisture content. Wet insulation products are dry before enclosing. Mandatory for certification if wet insulation is used.

Conditions met

Points Claimed: 2

Documentation Required - None.

Moisture content of lumber is sampled to ensure it does not exceed 19% prior to the surface and/or wall cavity enclosure.

Conditions met

Points Claimed: 4

Documentation Required - Moisture sampling data by builder or 3rd party.

Moisture content of subfloor, substrate, or concrete slabs is in accordance with the appropriate industry standard for the finish flooring to be applied.

Conditions met

Points Claimed: 2

Documentation Required - Moisture sampling data by builder or 3rd party.

Practice 903.5 Plumbing

Plumbing distribution lines are not installed in exterior wall cavities.

Conditions met

Points Claimed: 2

Documentation Required - None.

Cold water pipes in unconditioned spaces are insulated OR plumbing is not installed in unconditioned spaces.

Plumbing is not in unconditioned spaces

Points Claimed: 5

Documentation Required - None.

Practice 903.6 Duct Insulation

All HVAC ducts, plenums, and trunks in unconditioned attics, basements, and crawlspaces are insulated to a minimum of R-6. Mandatory for certification if ducts located in unconditioned spaces.

Conditions met

Points Claimed: 0

Documentation Required - Manufacturer's literature/specs showing R-value for insulation.

All HVAC ducts, plenums, and trunks in unconditioned attics, basements, and crawlspaces are insulated to a minimum of R-8.

Conditions met

Points Claimed: 2

Documentation Required - None.

Practice 903.7 Relative Humidity

In climate zones 1A, 2A, 3A, 4A, and 5A, equipment is installed to maintain relative humidity (RH) at or below 60%.

Central HVAC system equipped with additional controls to operate in dehumidification mode

Points Claimed: 8

Documentation Required - None

Section 904 -Innovative Practices**Practice 904.2 Kitchen exhaust**

Kitchen exhaust unit(s) ≥ 400 cfm & make-up air is provided.

Conditions met

Points Claimed: 2

Documentation Required - Manufacturer's literature showing cfm.

Total points claimed in Chapter 9 - Indoor Environmental Quality: 206

Point Minimums for this Chapter: Bronze: 36 Silver: 65 Gold: 100 Emerald: 140

CHAPTER 10 - Operation, Maintenance, and Building Owner Education**Section 1001 -Building Owners' Manual for One- and Two-Family Dwellings****Practice 1001.1 Building Owners' Manual for One- and Two-Family Dwellings**

A building owner's manual is provided. 1 point awarded per 2 items. Points awarded for both mandatory and non-mandatory items.

Total Points Claimed for this Item: 8

A green building certificate or placeholder. Mandatory for certification.

Points Claimed: 0.5

List of green building features. Mandatory for certification.

Points Claimed: 0.5

Mfg's manuals or product data for equipment, fixtures, & appliances. If data sheet is in manual, product manual may be attached to the appliance. Mandatory for certification.	Points Claimed: 0.5
Information on local recycling programs	Points Claimed: 0.5
Info on utility purchasing renewable energy	Points Claimed: 0.5
Benefits of energy efficient lighting systems (e.g., CFL bulbs, LEDs) in high usage areas	Points Claimed: 0.5
A list of practices to conserve water and energy	Points Claimed: 0.5
Local public transportation options	Points Claimed: 0.5
A diagram of safety valves & controls	Points Claimed: 0.5
Local providers for service & maintenance to assure proper performance of equipment & structure	Points Claimed: 0.5
Clearly labled photos (prior to insulation) of framing with utilities installed	Points Claimed: 0.5
Maintenance checklist	Points Claimed: 0.5
Information on organic pest control, fertilizers, deicers, and cleaning products	Points Claimed: 0.5
Information on native landscape materials and/or those that have low-water requirements	Points Claimed: 0.5
Instructions for maintaining gutters/downspouts & importance of diverting water 5' from foundation	Points Claimed: 0.5
Importance of maintenance and operation in retaining the attributes of a green building	Points Claimed: 0.5
Documentation Required - None.	

Section 1002 - Training of Building Owners on Operation and Maintenance for One- and Two-Family Dwellings and Multi-Unit Buildings

Practice 1002.1 Operation & Maintenance Training for Owners of One- and Two-Family Dwellings & Multi-Unit Buildings

Owners/occupants are familiarized with the green building practices implemented & the impact of occupants' activities on costs of operating the building. Training is provided regarding ALL equipment operation and control systems including at least ALL of:

1) HVAC filters, 2) thermostat operation and programming, 3) lighting controls, 4) appliances and settings, 5) water heater settings, AND 6) fan controls

Points Claimed: 6

Documentation Required - None.

Total points claimed in Chapter 10 - Operation, Maintenance, and Building Owner Education: **14**
Point Minimums for this Chapter: Bronze: 8 Silver: 10 Gold: 11 Emerald: 12