



COUNTY OF SANTA CLARA
2019 CALGREEN RESIDENTIAL CHECKLIST (MANDATORY+TIER 1)
County Amendments to CALGreen are in Italics.
- Designer to cross out items that are not applicable to the project.
- Installer or designer shall verify all applicable requirements have been satisfied and sign and date each row. County Inspectors will verify completion signatures and supporting documentation DURING CONSTRUCTION.

			APPLICANT TO COMPLETE Plan Check Review Data		Installer or Designer Verification	
ITEM #	CALGreen CODE SECTION	REQUIREMENT	REFERENCE SHEET	Note or Detail No.	Date	Installer or Designer Signature
PLANNING AND DESIGN: MANDATORY REQUIREMENTS						
1	4.106.2	A plan is developed and implemented to manage storm water drainage during construction.	CG-3	NOTE 1		
2	4.106.3	Construction plans indicates how site grading or a drainage system will manage all surface water flows to keep water from entering buildings	CG-3	NOTE 2		
3	4.106.4.1	For new dwellings and the <i>rebuild</i> of existing dwellings that include a panel upgrade or construction between panel and parking area, a raceway to a dedicated 208/240-volt branch circuit meeting the requirements, is installed.	CG-3	NOTES 3 & 4		
PLANNING AND DESIGN: TIER 1 MANDATORY REQUIREMENTS						
4	A4.106.2.3	Displaced topsoil is stockpiled for reuse in a designated area and covered or protected from erosion.	CG-4	NOTE 7		
5	A4.106.4	Not less than 20 percent of the total parking, walking or patio surfaces are permeable.	CG-4	NOTE 9		
6	A4.106.8.1	For new dwellings with attached private garages, a dedicated 208/240-volt branch circuit including an overcurrent protective device is installed in the raceway, meeting the applicable requirements.	CG-4	NOTE 12		
PLANNING AND DESIGN: TIER 1 ELECTIVE REQUIREMENTS						
Comply with at least two Tier 1 elective measures - Cross out the rows not applicable	7	A4.103.1	An infill site, greyfield site or EPA-recognized and Brownfield site is applicable.	CG-4	NOTE 1	
	8	A4.103.2	Community connectivity is facilitated by one of the approved methods.	CG-4	NOTE 2	
	9	A4.104.1	An individual with oversight responsibility for the project has participated in an educational program promoting environmentally friendly design or development and has provided instruction to appropriate entities.	CG-4	NOTE 3	
	10	A4.105.2	Existing buildings are disassembled for reuse or recycling of building materials. The proposed structure utilizes at least one of the listed materials.	CG-4	NOTE 4	
	11	A4.106.2.1	Soil analysis is performed by a licensed design professional and the findings are utilized in the structural design of the building.	CG-4	NOTE 5	
	12	A4.106.2.2	Soil disturbance and erosion are minimized by using one or more of the methods listed	CG-4	NOTE 6	
	13	A4.106.3	Landscape areas disrupted during construction are restored to be consistent with native vegetation and/or at least 75% native California or drought tolerant plant and tree are utilized.	CG-4	NOTE 8	
	14	A4.106.6	A vegetated roof for at least 50% of the roof area is installed. Vegetated roof complies with CBC chapters 15 and 16.	CG-4	NOTE 10	
	15	A4.106.7	Nonroof heat islands are reduced for 50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.	CG-4	NOTE 11	
	16	A4.106.10	Outdoor lighting systems are designed and installed to comply with one of the methods listed.	CG-4 CG-1	NOTE 13 TABLE A4.106.10	
ENERGY EFFICIENCY: MANDATORY REQUIREMENTS						
17	4.201.1	Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.	T24 SHEETS			
WATER EFFICIENCY & CONSERVATION: MANDATORY REQUIREMENTS						
18	4.303.1	Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4.	CG-3	NOTE 5		
19	4.303.2	Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC and meet the applicable referenced standards.	CG-3	Note 6		
20	4.304.1	Outdoor potable water use in landscape areas comply with a local water efficient landscape or the current California DWR MWEL0, whichever is more stringent.	CG-3	Note 7		
21	4.305.1	For new dwellings where disinfected tertiary recycled water is available, installation of recycled water supply system is required per CPC chapter 15.	CG-3	Note 8		

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WATER EFFICIENCY & CONSERVATION : TIER 1 ELECTIVE REQUIREMENTS						
Comply with at least two Tier 1 elective measures - Cross out the rows not applicable	22	A4.303.1	Kitchen faucet maximum flow rate does not exceed 1.5 gpm at 60 psi. See exceptions.	CG-4	NOTE 14	
	23	A4.303.2	Alternate nonpotable water resources are used for indoor potable water reduction and are installed in accordance with CPC.	CG-4	NOTE 15	
	24	A4.303.3	At least one qualified ENERGY STAR dishwasher or clothes washer is installed.	CG-4	NOTE 16	
	25	A4.303.4	Nonwater urinals or composting toilets are installed.	CG-4	NOTE 17	
	26	A4.303.5	Dwelling is equipped with a demand hot water recirculation system. The system is installed per CPC, CENc, and the manufacturer's installation instructions.	CG-4	NOTE 18	
	27	A4.304.1	An approved rainwater catchment system is designed and installed to use rainwater generated by at least 65% of the available roof area. The system is installed per CPC.	CG-4	NOTE 19	
	28	A4.304.2	A water efficient landscape irrigation design that eliminates the use of potable water, is provided. Method used to accomplish the requirements comply with California Building Standards Code and one or more of listed methods.	CG-4	NOTE 20	
	29	A4.304.3	Separate submeters or metering devices for outdoor potable water use is provided for landscape areas less than 5000 sq.ft.	CG-4	NOTE 21	
	30	A4.305.1	Alternative plumbing piping is installed to permit the discharge from the clothes washer or other fixtures to be used for an irrigation system in compliance with CPC.	CG-4	NOTE 22	
	31	A4.305.2	Dual water piping is installed for future use of recycled water at listed locations.	CG-4	NOTE 23	
	32	A4.305.3	Recycled water is used for landscape irrigation.	CG-4	Note 24	
MATERIAL CONSERVATION & RESOURCE EFFICIENCY: MANDATORY REQUIREMENTS						
33	4.406.1	Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls are protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the County of Santa Clara.	CG-3	Note 9		
34	4.408.1	Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste. Submit either a Construction Waste management plan (CALGreen 4.408.2) or Utilize a waste management company (CALGreen 4.408.3).	CG-3	Note 10		
35	4.408.5	Documentation is provided to County of Santa Clara which demonstrates compliance with CALGreen sections 4.408.2 or 4.408.3.	CG-2 CG-3	Construction Waste Management Forms Note 11		
36	4.410.1	An operation and maintenance manual is placed in the building at the time of final inspection.	CG-3	Note 12		
MATERIAL CONSERVATION & RESOURCE EFFICIENCY: TIER 1 MANDATORY REQUIREMENTS						
37	A4.403.2	Reduction in cement use in foundation mix design is not less than 20 percent. Use materials with a total RCV (recycled content value) not less than a 10-percent of the total material cost of the project except structural framing material.	CG-4	Note 26		
38	A4.405.3.1	Use materials with a total RCV (recycled content value) not less than a 10-percent of the total material cost of the project except structural framing material.	CG-4	Note 33		
39	A4.408.1	Reduce construction waste by at least 65%. Documentation is submitted to the County of Santa Clara demonstrating compliance.	CG-2 CG-34	Construction Waste Management Forms Note 41		
MATERIAL CONSERVATION & RESOURCE EFFICIENCY: TIER 1 ELECTIVE REQUIREMENTS						
Comply with at least two Tier 1 elective measures - Cross out the rows not applicable	40	A4.403.1	A Frost-Protected Shallow Foundation (FPSF) is utilized in compliance with CRC. The required manual includes instructions to the owner or occupant regarding the necessity for heating the structure per CRC R403.3.	CG-4	NOTE 25	
	41	A4.404.1	Beams, headers and trimmers are sized and installed as specified in Chapter 23 of CBC or Chapter 6 of CRC.	CG-4	NOTE 27	
	42	A4.404.2	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure.	CG-4	NOTE 28	
	43	A4.404.3	Premanufactured building system, as listed, is used to eliminate solid sawn lumber	CG-4	NOTE 29	
	44	A4.404.4	Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems.	CG-4	NOTE 30	
	45	A4.405.1	Prefinished building materials are utilized which do not require additional painting or staining. Acceptable material list is per CALGreen A4.405.1.	CG-4	NOTE 31	
	46	A4.405.2	Concrete floors that do not require additional coverings are used.	CG-4	NOTE 32	
	47	A4.405.4	One or more of the listed materials from rapidly renewable sources or agricultural byproducts are used.	CG-4	NOTE 34	
	48	A4.407.1	Foundation and landscape drains with discharge to an approved on-site location is installed.	CG-4	NOTE 35	
	49	A4.407.2	Roof gutter and downspout system is installed to route water at least 5 feet away from the foundation or connect to landscape drains with approved on-site discharge.	CG-4	NOTE 36	
50	A4.407.3	Flashing details complying with accepted industry standards or manufacturer's instructions are provided on the plans.	CG-4	NOTE 37		
51	A4.407.4	Building materials delivered to the construction site are protected from rain and other sources of moisture.	CG-4	NOTE 38		
52	A4.407.6	Exterior doors are covered to prevent water intrusion by one or more listed methods.	CG-4	NOTE 39		
53	A4.407.7	A permanent overhang or awning at least two feet in depth is provided at all exterior walls.	CG-4	Note 40		

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ENVIRONMENTAL QUALITY: MANDATORY REQUIREMENTS						
54	4.503.1	Any installed gas fireplace is a direct-vent sealed-combustion type. Any installed woodstove or pellet stove comply with US EPA Phase II emission limits where applicable.	CG-3	Note 13		
55	4.504.1	Duct openings and other related air distribution component openings are covered during construction until final startup of the HVAC equipment.	CG-3	Note 14		
56	4.504.2.1	Adhesives, sealants and caulks are compliant with VOC and other toxic compound limits.	CG-2 CG-2	Table 4.504.1 Table 4.504.2 Note 15		
57	4.504.2.2	Architectural paints and coatings are compliant with VOC limits.	CG-3	Note 16		
58	4.504.2.3	Aerosol paints and coatings are compliant with product weighted MIR limits for ROC and other toxic compounds.	CG-3	Note 17		
59	4.504.2.4	Documentation are provided to the County of Santa Clara to verify that compliant VOC limit finish materials have been used.	CG-3	Note 18		
60	4.504.3	Carpet and carpet systems meet the applicable testing and product requirements.	CG-2 CG-3	Table 4.504.1 Note 19		
61	4.504.5	Hardwood plywood, particleboard and medium density fiberboard composite wood meet formaldehyde limits.	CG-3	Table 4.504.5 Note 21		
62	4.504.5.1	Documentation is provided to the County of Santa Clara to verify composite wood meets applicable formaldehyde limits.	CG-3	Note 22		
63	4.505.2	Vapor retarder and capillary break is installed at slab-on-grade foundations.	CG-3	Note 23		
64	4.505.3	Moisture content of building materials used in wall and floor framing do not exceed 19% prior to enclosure and is checked before enclosure. Insulation products are dry prior to enclosure.	CG-3	Note 24		
65	4.506.1	Each bathroom is mechanically ventilated and comply with applicable requirements.	CG-3	Note 25		
66	4.507.2	Heating and air-conditioning systems are sized, designed, and equipment is selected by using one of the methods listed.	CG-3	Note 26		
ENVIRONMENTAL QUALITY: TIER 1 MANDATORY REQUIREMENTS						
67	A4.504.2	At least 90% of resilient flooring complies with applicable VOC limits.	CG-4	Note 43		
68	A4.504.3	Thermal insulation in the building is installed in compliance with applicable standards.	CG-4	Note 44		
ENVIRONMENTAL QUALITY: TIER 1 ELECTIVE REQUIREMENTS						
Comply with at least one Tier 1 elective measures - Cross out the rows not applicable	69	A4.504.1	Composite wood products made with NAF or ULEF resins are used.	CG-4	Note 42	
	70	A4.506.2	Filters at MERV 8 or higher are used on return air openings, during construction.	CG-4	Note 45	
	71	A4.506.3	Direct vent heating and cooling equipment are utilized where the equipment will be located in the conditioned space or the space heating and water heating equipment is installed in an isolated mechanical room.	CG-4	Note 46	
INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS: MANDATORY REQUIREMENTS						
72	702.1	HVAC system installers are trained and certified in the proper installation of HVAC systems.	CG-3	Note 27		
73	702.2	If required by County of Santa Clara, owner or owner's agent shall employ special inspector who are qualified and able to demonstrate competence in the discipline they are inspecting.	CG-3	Note 28		
74	703.1	Documentation used to show compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to County of Santa Clara which show substantial conformance.	CG-3	Note 29		

TABLE 4.504.5 FORMALDEHYDE LIMITS ¹ Maximum Formaldehyde Emissions in Parts per Million	
PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard ²	0.13

1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. For additional information, see *California Code of Regulations*, Title 17, Sections 93120 through 93120.12.
2. Thin medium density fiberboard has a maximum thickness of 3/16 inch (8 mm).

TABLE A4.106.10 MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS ^{1,2}				
ALLOWABLE RATING	LIGHTING ZONE 1	LIGHTING ZONE 2	LIGHTING ZONE 3	LIGHTING ZONE 4
Maximum Allowable Backlight Rating ³				
Luminaire greater than 2 mounting heights (MH) from property line	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1 – 2 MH from property line	B2	B3	B4	B4
Luminaire back hemisphere is 0.5 – 1 MH from property line	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	B0	B0	B1	B2
Maximum Allowable Uplight Rating				
For area lighting ⁴	U0	U0	U0	U0
For all other outdoor lighting, including decorative luminaires	U1	U2	U3	U4
Maximum Allowable Glare Rating ⁵				
Luminaire greater than 2 MH from property line	G1	G2	G3	G4
Luminaire from hemisphere is 1 – 2 MH from property line	G0	G1	G1	G2
Luminaire from hemisphere is 0.5 – 1 MH from property line	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code*.
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.
3. If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.
4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting."
5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

Project Information

CALGreen One or Two Family Residential Project Mandatory and Tier1 Requirements
County of Santa Clara



CG-1

Less Water and Less Exempt Compounds in Grams per Liter	
ARCHITECTURAL APPLICATIONS	VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
UVCI and spallfill tie adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	50
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

1. If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be allowed.
2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168.

COATING CATEGORY	VOC LIMIT
Flat coatings	50
Nonflat coatings	100
Nonflat-high gloss coatings	150
SPECIALTY COATINGS	
Aluminum roof coatings	400
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	50
High temperature coatings	420
Industrial maintenance coatings	250
Low solids coatings ⁴	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multicolor coatings	250
Pretreatment wash primers	420
Primer, sealers, and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Rust preventative coatings	250
Shellacs	730
Clear	250
Opaque	250
Specialty primers, sealers and undercoaters	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tile and tile refinish coatings	420
Waterproofing membranes	250
Wood coatings	275
Wood preservatives	350
Zinc-rich primers	340

1. Grams of VOC per liter of coating, including water and including exempt compounds.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

Construction Waste Management (CWM) Plan

Fill out the form including diversion rate and facility names and addresses

Project Name: _____

Job #: _____

Project Manager: _____

Waste Hauling Company: _____

Contact Name: _____

Legend:

_____ Hauling Company

_____ Sorting Facility Name and Location

_____ Disposal Service Company

All Subcontractors shall comply with the project's Construction Waste Management Plan.
All Subcontractor foremen shall sign the CWM Plan Acknowledgment Sheet.

Subcontractors who fail to comply with the Waste Management Plan will be subject to backcharges or withholding of payment, as deemed appropriate. For instance, Subcontractors who contaminate debris boxes that have been designated for a single material type will be subject to backcharge or withheld payment, as deemed appropriate.

1. The project's overall rate of waste diversion will be _____ %.
 2. This project shall generate the least amount of waste possible by planning and ordering carefully, following all proper storage and handling procedures to reduce broken and damaged materials and recycling materials whenever possible. The majority of the waste that is generated on this jobsite will be diverted from the landfill and reused for other use.
 3. Spreadsheet 1, enclosed, identifies the waste materials that will be generated on this project, the diversion strategy for each waste type and the anticipated diversion rate.
 4. Waste prevention and recycling activities will be discussed at the beginning of weekly subcontractor meetings. As each new subcontractor comes on-site, the WMP Coordinator will present him/her with a copy of the CWM Plan and provide a tour of the jobsite to identify materials to be salvaged and the procedures for handling jobsite debris. All Subcontractor foremen will acknowledge in writing that they have read and will abide by the CWM Plan. Subcontractor Acknowledgment Sheet enclosed. The CWM Plan will be posted at the jobsite trailer.
 5. Salvage: Materials that cannot be used in the project, nor returned to the vendor, will be offered to site workers, the owner, or donated to charity if feasible. _____ will provide a commingled drop box at the jobsite for most of the construction waste. These commingled drop boxes will be taken to _____ . The average diversion rate for commingled waste will be _____ %.
 6. As site conditions permit, additional drop boxes will be used for particular phases of construction (e.g., concrete and wood waste) to ensure the highest diversion rate possible.
 7. In the event that the waste diversion rate achievable via the strategy described in (6) above, is projected to be lower than what is required, then a strategy of source-separated waste diversion and/or waste stream reduction will be implemented. Source-separated waste refers to jobsite waste that is not commingled but is instead allocated to a debris box designated for a single material type, such as clean wood or metal.
- Notes:**
1. Waste stream reduction refers to efforts taken by the builder to reduce the amount of waste generated by the project to four (4) pounds per square foot of building area.
 2. When using waste stream reduction measures, the gross weight of the product is subtracted from a base weight of four (4) pounds per square foot of building area. This reduction is considered additional diversion and can be used in the waste reduction percentage calculations.
 3. _____ will track and calculate the quantity (in tons) of all waste leaving the project and calculate the waste diversion rate for the project. _____ will provide Project Manager with an updated monthly report on gross weight on-site hauled and the waste diversion percentage being achieved on the project. _____ monthly report will track separately the gross weights and diversion rates for commingled debris and for each source-separated waste stream leaving the project. In the event that _____ does not service any or all of the debris boxes on the project, the _____ will work with the responsible parties to track the material type and weight (in tons) in such debris boxes in order to determine waste diversion rates for these materials.
 4. In the event that Subcontractors furnish their own debris boxes as part of their scope of work, such Subcontractors shall not be excluded from complying with the CWM Plan and will provide _____ weight and waste diversion data for their debris boxes.
 5. In the event that site use constraints (such as limited space) restrict the number of debris boxes that can be used for collection of designated waste by the project Superintendent will, as deemed appropriate, allocate specific areas onsite where individual material types are to be consolidated. The designated points will be clearly marked and clearly contaminated with non-designated waste types.
 6. Debris from jobsite office and meeting rooms will be collected by _____ . _____ will, at a minimum, recycle office paper, plastic, metal and cardboard.

Construction Waste Management (CWM) Worksheet

Project Name: _____

Job Number: _____

Project Manager: _____

Waste Hauling Company: _____

Construction Waste Management (CWM) Plan

WASTE MATERIAL TYPE	DIVERSION METHOD:		PROJECTED DIVERSION RATE
	COMINGLED AND SORTED OFF SITE	SOURCE SEPARATED ON SITE	
Asphalt			
Concrete			
Shotcrete			
Metals			
Wood			
Rigid insulation			
Fiberglass insulation			
Acoustic ceiling tile			
Gypsum drywall			
Carpet/carpet pad			
Plastic pipe			
Plastic buckets			
Plastic			
Hardiplank siding and boards			
Glass			
Cardboard			
Pallets			
Job office trash, paper, glass & plastic bottles, cans, plastic			
Alkaline and rechargeable batteries, toner cartridges, and electronic devices			
Other:			
Other:			
Other:			
Other:			

WASTE MATERIAL TYPE	DIVERSION METHOD:		PROJECTED DIVERSION RATE
	COMMINGLED AND SORTED OFF SITE	SOURCE SEPARATED ON SITE	
Asphalt			
Concrete			
Shotcrete			
Metals			
Wood			
Rigid insulation			
Fiberglass insulation			
Acoustic ceiling tile			
Gypsum drywall			
Carpet/carpet pad			
Plastic pipe			
Plastic buckets			
Plastic			
Hardiplank siding and boards			
Glass			
Cardboard			
Pallets			
Job office trash, paper, glass & plastic bottles, cans, plastic			
Alkaline and rechargeable batteries, toner cartridges, and electronic devices			
Other:			
Other:			
Other:			
Other:			

Construction Waste Management (CWM) Acknowledgment

Note: This sample form may be used to assist in documenting compliance with the waste management plan

[illegible][illegible]

Table 1 - Recycled Content Value Calculations

[illegible]

Table 2 - Assembly Product Recycled Content Calculations *

ASSEMBLY PRODUCT:								
A	B	C	D	E	F	G	H	I
	Material Weight (lb)	Material Weight (%)	Post-Consumer Recycled Content(lb)	Post-Consumer Recycled Content (%)	Pre-Consumer Recycled Content(lb)	Pre-Consumer Recycled Content (%)	Proportional Post-Consumer Content (%)	Proportional Pre-Consumer Content (%)
Assembly Product**								
Total Weight:								
Assembly Post-Consumer Recycled Content:								
Assembly Pre-Consumer Recycled Content:								

* Use one sheet per assembly product.

** Materials used as components of the structural frame shall not be used to calculate recycled content. The structural frame includes the load bearing structural elements, such as wall studs, plates, sills, columns, beams, girders, joists, rafters, and trusses.

The sum of post-consumer and pre-consumer recycled contents of each material in the assembly product cannot exceed 100%.

RECYCLED CONTENT - DECLARATION STATEMENT

Project Name:	
Project Location:	
Project Manager:	
Project Owner:	

The following section shall be completed by a person with overall responsibility for the planning and design portion of the project.

DECLARATION STATEMENT:

- I certify under penalty of perjury, under the laws of the State of California, the information provided is true and correct.
- I certify that the materials, components, assembly products or manufactured devices identified on this certificate conform to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcing agency.

Responsible Person's Name:	Responsible Person's Signature:
Date Signed:	Position/Title:
Notes:	Attachments:

Table 3 - Recycled Content Conversion Table (Pounds to %) *

A	B	C	D	E	F
Type of Material	Material Weight (lb)	Post-Consumer Recycled Content(lb)	Post-Consumer Recycled Content (%)	Pre- Consumer Recycled Content(lb)	Pre- Consumer Recycled Content (%)

* When the Post-Consumer and Pre-Consumer Recycled Content of any material are provided in pounds, Table 3 may be used for calculating the percentages of the recycled contents in each material. Table 3 shall not be used for assembly calculations.

Step 1 - Insert the type of material into Column A.

Step 2 - Insert the weight of material (provided by the manufacturer or other source) into Column B.

Step 3 - Insert the weight of Post-Consumer Recycled Content (provided by the manufacturer or other source) into Column C.

Step 4 - Insert the weight of Pre-Consumer Recycled Content (provided by the manufacturer or other source) into Column E.

Step 5 - Divide the values in Column C by the values in Column B; insert the Post-Consumer Recycled Content of each material in percentages into Column D.

Step 6 - Divide the values in Column E by the values in Column B; insert the Pre-Consumer Recycled Content of each material in percentages into Column F.

Step 7 - Transfer the percentages of Post-Consumer and Pre-Consumer Recycled Content from Column D and Column F to Table 1, Columns E and F.

Project Information



CALGREEN 2019 NOTES – MANDATORY REQUIREMENTS:

1. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. SEE CALGREEN 4.106.2 FOR FURTHER DETAILS.

2. CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. SWALES, WATER COLLECTION AND DISPOSAL SYSTEMS, FRENCH DRAINS, WATER RETENTION GARDENS, AND OTHER MEASURES CAN BE USED. EXCEPTION: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

3. NEW CONSTRUCTION SHALL COMPLY WITH CALGREEN SECTION 4.106.4.1 TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625.

EXCEPTIONS:

- A. WHERE COUNTY OF SANTA CLARA HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE.
- B. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

4. FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVER CURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

5. ALL NONCOMPLIANT PLUMBING FIXTURES SHALL BE REPLACED WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY, OR FINAL PERMIT APPROVAL BY BUILDING AND INSPECTION DIVISION. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

- A. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- B. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.
- C. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWER-HEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.
- D. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.
- E. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

6. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

7. RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL0), WHICHEVER IS MORE STRINGENT.

8. NEWLY CONSTRUCTED RESIDENTIAL DEVELOPMENTS, WHERE DISINFECTED TERTIARY RECYCLED WATER IS AVAILABLE FROM A MUNICIPAL SOURCE TO A CONSTRUCTION SITE, MAY BE REQUIRED TO HAVE RECYCLED WATER SUPPLY SYSTEMS INSTALLED, ALLOWING THE USE OF RECYCLED WATER FOR RESIDENTIAL LANDSCAPE IRRIGATION SYSTEMS. SEE CHAPTER 15 OF THE CALIFORNIA PLUMBING CODE.

9. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

10. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CALGREEN SECTION 4.408.2 OR 4.408.3.

A. A CONSTRUCTION WASTE MANAGEMENT PLAN IS PROVIDED. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE COUNTY OF SANTA CLARA.

- 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
- 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
- 3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.
- 4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
- 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

B. A WASTE MANAGEMENT COMPANY CAN BE UTILIZED IF APPROVED BY THE COUNTY OF SANTA CLARA. SEE CALGREEN 4.408.3 FOR FURTHER .DETAILS

11. DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATES COMPLIANCE WITH NOTE 10.

12. AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE COUNTY OF SANTA CLARA INCLUDES ALL OF THE REQUIRED INFORMATION, SHALL BE PLACED IN THE BUILDING. SEE CALGREEN 4.410.1 FOR DETAILS OF REQUIRED INFORMATION.

13. ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE SANTA CLARA COUNTY ORDINANCES AND BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATION 6, RULE 3.

14. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

15. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF CALGREEN TABLES 4.504.1 OR 4.504.2 AS REPRODUCED ON SHEET CG-1. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED BELOW.

AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

16. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS AS SHOWN IN TABLE 4.504.3 SHEET CG-1. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NON-FLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3, SHEET CG-1 SHALL APPLY.

17. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

18. VERIFICATION OF COMPLIANCE WITH NOTES 15, 16, AND 17 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

19. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:

- A. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.
- B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.)
- C. NSF/ANSI 140 AT THE GOLD LEVEL.
- D. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD.

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1, SHEET CG-1.

20. WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:

A. PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.

B. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM).

C. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.

D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350).

21. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN TABLE 4.504.5 SHEET CG-1.

22. VERIFICATION OF COMPLIANCE WITH NOTE 21 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

23. CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY CBC, CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY CRC CHAPTER 5, SHALL COMPLY WITH FOLLOWING REQUIREMENT:

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

- A. A 4-INCH-THICK BASE OF 1/2 INCH OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED.
- B. A SLAB DESIGN SPECIFIED BY THE LICENSED DESIGN PROFESSIONAL.

24. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

25. EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

- A. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
- B. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
 - 1. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
 - 2. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL.

26. HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

- A. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J—2016 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- B. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D—2016 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- C. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S—2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

27. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS.

28. IF REQUIRED BY THE COUNTY OF SANTA CLARA, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE COUNTY OF SANTA CLARA FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

29. DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED IN THE APPLICATION CHECKLIST.



CALGREEN 2019 NOTES – TIER 1 REQUIREMENTS:

1. SITE WHICH COMPLIES WITH AT LEAST ONE OF THE FOLLOWING CHARACTERISTICS SHALL BE SELECTED:
- A. AN INFILL SITE.
 - B. A GREYFIELD SITE.
 - C. AN EPA-RECOGNIZED AND REMEDIATED BROWNFIELD SITE.
2. FACILITATE COMMUNITY CONNECTIVITY BY ONE OF THE FOLLOWING METHODS:
- A. LOCATE PROJECT WITHIN A ¼ MILE TRUE WALKING DISTANCE OF AT LEAST FOUR BASIC SERVICES, READILY ACCESSIBLE BY PEDESTRIANS.
 - B. LOCATE PROJECT WITHIN A ½ MILE TRUE WALKING DISTANCE OF AT LEAST SEVEN BASIC SERVICES, READILY ACCESSIBLE BY PEDESTRIANS.
 - C. OTHER METHODS INCREASING ACCESS TO ADDITIONAL RESOURCES.

EXAMPLES OF SERVICES INCLUDE, BUT ARE NOT LIMITED TO, BANK, PLACE OF WORSHIP, CONVENIENCE GROCERY, DAY CARE, CLEANERS, FIRE STATION, BARBER SHOP, BEAUTY SHOP, HARDWARE STORE, LAUNDRY, LIBRARY, MEDICAL CLINIC, DENTAL CLINIC, SENIOR CARE FACILITY, PARK, PHARMACY, POST OFFICE, RESTAURANT, SCHOOL, SUPERMARKET, THEATER, COMMUNITY CENTER, FITNESS CENTER, MUSEUM OR FARMERS MARKET.

3. INDIVIDUALS WITH OVERSIGHT AUTHORITY ON THE PROJECT WHO HAVE BEEN TRAINED IN AREAS RELATED TO ENVIRONMENTALLY FRIENDLY DEVELOPMENT SHALL TEACH GREEN CONCEPTS TO OTHER MEMBERS OF THE DEVELOPMENT STAFF AND ENSURE THAT TRAINING IS PROVIDED TO ALL PARTIES ASSOCIATED WITH THE DEVELOPMENT OF THE PROJECT.

PRIOR TO BEGINNING THE CONSTRUCTION ACTIVITIES, ALL PARTIES INVOLVED WITH THE DEVELOPMENT PROCESS SHALL RECEIVE A WRITTEN GUIDELINE AND INSTRUCTION SPECIFYING THE GREEN GOALS OF THE PROJECT.

4. THE SALVAGED MATERIALS FROM DECONSTRUCTION OF EXISTING BUILDINGS ON THE SITE SHALL BE REUSED. REUSED MATERIALS OR PRODUCTS MUST COMPLY WITH CURRENT BUILDING STANDARDS REQUIREMENTS OR BE AN ACCEPTED ALTERNATE METHOD OR MATERIAL.

MATERIALS WHICH CAN BE EASILY REUSED INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- A. LIGHT FIXTURES.
- B. PLUMBING FIXTURES.
- C. DOORS AND TRIM.
- D. MASONRY.
- E. ELECTRICAL DEVICES.
- F. APPLIANCES.
- G. FOUNDATIONS OR PORTIONS OF FOUNDATIONS.

REUSED MATERIAL MUST BE IN COMPLIANCE WITH THE APPROPRIATE TITLE 24 REQUIREMENTS.

5. BUILDING SITE SOIL ANALYSIS SHALL BE PERFORMED BY A LICENSED DESIGN PROFESSIONAL AND THE FINDINGS SHALL BE UTILIZED IN THE STRUCTURAL DESIGN OF THE BUILDING.

6. THE EFFECT OF DEVELOPMENT ON BUILDING SITES SHALL BE EVALUATED AND THE SOIL SHALL BE PROTECTED BY ONE OR MORE OF THE FOLLOWING:

- A. NATURAL DRAINAGE PATTERNS SHALL BE EVALUATED AND EROSION CONTROLS SHALL BE IMPLEMENTED TO MINIMIZE EROSION DURING CONSTRUCTION AND AFTER OCCUPANCY.
- B. SITE ACCESS SHALL BE ACCOMPLISHED BY MINIMIZING THE AMOUNT OF CUT AND FILL NEEDED TO INSTALL ACCESS ROADS AND DRIVEWAYS.
- C. AS ALLOWED BY OTHER PARTS OF THE CALIFORNIA BUILDING STANDARDS CODE, UNDERGROUND CONSTRUCTION ACTIVITIES SHALL BE COORDINATED TO UTILIZE THE SAME TRENCH, MINIMIZE THE AMOUNT OF TIME THE DISTURBED SOIL IS EXPOSED AND THE SOIL SHALL BE REPLACED USING ACCEPTED COMPACTION METHODS.

7. TOPSOIL SHALL BE PROTECTED OR SAVED FOR REUSE. DISPLACED TOPSOIL SHALL BE STOCKPILED FOR REUSE IN A DESIGNATED AREA AND COVERED OR PROTECTED FROM EROSION. PROTECTION FROM EROSION INCLUDES COVERING WITH TARPS, STRAW, MULCH, CHIPPED WOOD, VEGETATIVE COVER, OR OTHER MEANS ACCEPTABLE TO THE COUNTY OF SANTA CLARA TO PROTECT THE TOPSOIL FOR LATER USE.

8. POSTCONSTRUCTION LANDSCAPE DESIGNS SHALL ACCOMPLISH ONE OR MORE OF THE FOLLOWING:

- A. AREAS DISRUPTED DURING CONSTRUCTION SHALL BE RESTORED TO BE CONSISTENT WITH NATIVE VEGETATION SPECIES AND PATTERNS.
- B. UTILIZE AT LEAST 75 PERCENT NATIVE CALIFORNIA OR DROUGHT TOLERANT PLANT AND TREE SPECIES APPROPRIATE FOR THE CLIMATE ZONE REGION.

9. PERMEABLE PAVING SHALL BE UTILIZED FOR NOT LESS THAN 20 PERCENT OF THE TOTAL PARKING, WALKING OR PATIO SURFACES

THE PRIMARY DRIVEWAY, PRIMARY ENTRY WALKWAY AND ENTRY PORCH OR LANDING SHALL NOT BE INCLUDED WHEN CALCULATING THE AREA REQUIRED TO BE A PERMEABLE SURFACE.

10. INSTALL A VEGETATED ROOF FOR AT LEAST 50 PERCENT OF THE ROOF AREA. VEGETATED ROOFS SHALL COMPLY WITH REQUIREMENTS FOR ROOF GARDENS AND LANDSCAPED ROOFS IN THE CALIFORNIA BUILDING CODE, CHAPTER 15 AND CHAPTER 16.

11. REDUCE NONROOF HEAT ISLANDS FOR 50 PERCENT OF SIDEWALKS, PATIOS, DRIVEWAYS OR OTHER PAVED AREAS BY USING ONE OR MORE OF THE METHODS LISTED.

- A. TREES OR OTHER PLANTINGS TO PROVIDE SHADE AND THAT MATURE WITHIN 15 YEARS OF PLANTING. TREES SHOULD BE NATIVE OR ADAPTIVE TO THE REGION AND CLIMATE ZONES AND NONINVASIVE; HARDY AND RESISTANT TO DROUGHT, INSECTS AND DISEASE; EASY TO MAINTAIN (NO FREQUENT SHEDDING OF TWIGS, BRANCHES, UNWANTED FRUIT OR SEED PODS); AND SUITABLE IN MATURE SIZE

AND ENVIRONMENTAL REQUIREMENTS FOR THE SITE. TREE SELECTION AND PLACEMENT SHOULD CONSIDER LOCATION AND SIZE OF AREAS TO BE SHADED, LOCATION OF UTILITIES, VIEWS FROM THE STRUCTURE, DISTANCE TO SIDEWALKS AND FOUNDATIONS, OVERHANGS ONTO ADJACENT PROPERTIES AND STREETS; OTHER INFRASTRUCTURE AND ADJACENT TO LANDSCAPING. IN ADDITION, SHADING SHALL NOT CAST A SHADOW, AS SPECIFIED, ON ANY NEIGHBORING SOLAR COLLECTORS PURSUANT TO PUBLIC RESOURCES CODE SECTION 25981, ET SEQ. (SOLAR SHADE CONTROL ACT).

B. USE HIGH ALBEDO MATERIALS WITH AN INITIAL SOLAR REFLECTANCE VALUE OF AT LEAST 0.30 AS DETERMINED IN ACCORDANCE ASTM E1918 OR C1549.

C. USE OPEN GRID PAVEMENT SYSTEM OR PERVIOUS OR PERMEABLE PAVEMENT SYSTEM.

D. LOCATE 50 PERCENT OF PARKING UNDERGROUND OR USE MULTILEVEL PARKING.

E. OTHER METHODS OF REDUCING HEAT ISLAND EFFECTS ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

12. FOR EACH DWELLING UNIT, INSTALL A DEDICATED 208/240-VOLT BRANCH CIRCUIT IN THE RACEWAY REQUIRED BY CALGREEN SECTION 4.106.4.1 (SEE SHEET GB-2 NOTE 4). THE BRANCH CIRCUIT AND ASSOCIATED OVERCURRENT PROTECTIVE DEVICE SHALL BE RATED AT 40 AMPERES MINIMUM. OTHER ELECTRICAL COM-PONENTS, INCLUDING A RECEPTACLE OR BLANK COVER, RELATED TO THIS SECTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE DESIGNATED FOR FUTURE EV CHARGING PURPOSES AS "EV READY" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. THE RECEPTACLE OR BLANK COVER SHALL BE IDENTIFIED AS "EV READY."

13. OUTDOOR LIGHTING SYSTEMS SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH THE FOLLOWING:
- A. THE MINIMUM REQUIREMENTS IN THE CALIFORNIA ENERGY CODE FOR LIGHTING ZONES 1-4 AS DEFINED IN CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE CODE; AND
 - B. BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS AS DEFINED IN IES TM-15-11; AND
 - C. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN IN CALGREEN TABLE A4.106.10

EXCEPTIONS:

- 1. LUMINAIRES THAT QUALIFY AS EXCEPTIONS IN THE CALIFORNIA ENERGY CODE.
- 2. EMERGENCY LIGHTING.
- 3. ONE- AND TWO-FAMILY DWELLINGS.

14. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.5 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.5 GAL-LONS PER MINUTE AT 60 PSI. WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

15. ALTERNATE NONPOTABLE WATER SOURCES SHALL BE USED FOR INDOOR POTABLE WATER REDUCTION. ALTERNATE NONPOTABLE WATER SOURCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING Code.

16. INSTALL AT LEAST ONE QUALIFIED ENERGY STAR DISHWASHER OR CLOTHES WASHER.

17. NONWATER URINALS OR COMPOSTING TOILETS SHALL BE INSTALLED. WHERE APPROVED, HYBRID URINALS, AS DEFINED IN CALGREEN CHAPTER 2, SHALL BE CONSIDERED NONWATER URINALS.

18. ONE- AND TWO-FAMILY DWELLINGS SHALL BE EQUIPPED WITH A DEMAND HOT WATER RECIRCULATION SYSTEM, AS DEFINED IN CALGREEN CHAPTER 2. THE DEMAND HOT WATER RECIRCULATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, CALIFORNIA ENERGY CODE, AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

19. AN APPROVED RAINWATER CATCHMENT SYSTEM SHALL BE DESIGNED AND INSTALLED TO USE RAINWATER GENERATED BY AT LEAST 65 PERCENT OF THE AVAILABLE ROOF AREA. RAINWATER CATCHMENT SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

20. WHEN LANDSCAPING IS PROVIDED AND AS ALLOWED BY LOCAL ORDINANCE, A WATER EFFICIENT LANDSCAPE IRRIGATION DESIGN THAT ELIMINATES THE USE OF POTABLE WATER BEYOND THE INITIAL REQUIREMENTS FOR PLANT INSTALLATION AND ESTABLISHMENT SHALL BE PROVIDED. METHODS USED TO ACCOM-PLISH THE REQUIREMENTS OF THIS SECTION SHALL COMPLY WITH THE REQUIREMENTS OF THE CALFORNIA BUILDING STANDARDS CODE AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- A. USE OF CAPTURED RAINWATER.
- B. USE OF RECYCLED WATER.
- C. WATER TREATED FOR IRRIGATION PURPOSES AND CONVEYED BY A WATER DISTRICT OR PUBLIC ENTITY.
- D. USE OF GRAYWATER.
- E. USE OF DROUGHT TOLERANT PLANTS.

21. FOR NEW WATER SERVICE CONNECTIONS, LANDSCAPED IRRIGATED AREAS LESS THAN 5,000 SQUARE FEET SHALL BE PROVIDED WITH SEPARATE SUBMETERS OR METERING DEVICES FOR OUTDOOR POTABLE WATER USE.

22. ALTERNATIVE PLUMBING PIPING SHALL BE INSTALLED TO PERMIT THE DISCHARGE FROM THE CLOTHES WASHER OR OTHER FIXTURES TO BE USED FOR AN IRRIGATION SYSTEM IN COMPLIANCE WITH THE CALIFORNIA PLUMBING CODE.

23. BASED ON PROJECTED AVAILABILITY, DUAL WATER PIPING SHALL BE INSTALLED FOR FUTURE USE OF RECYCLED WATER AT THE FOLLOWING LOCATIONS:

- A. INTERIOR PIPING FOR THE USE OF RECYCLED WATER SHALL BE INSTALLED TO SERVE ALL WATER CLOSETS, URINALS AND FLOOR DRAINS.
- B. EXTERIOR PIPING IS INSTALLED TO TRANSPORT RECYCLED WATER FROM THE POINT OF CONNECTION TO THE STRUCTURE. RECYCLED WATER SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

24. RECYCLED WATER SHALL BE USED FOR LANDSCAPE IRRIGATION.

25. AS ALLOWED BY LOCAL CONDITIONS, UTILIZE A FROST-PROTECTED SHALLOW FOUNDATION (FPSF) IN COMPLIANCE WITH THE CALIFORNIA RESIDENTIAL CODE (CRC). WHEN AN FPSF FOUNDATION SYSTEM IS INSTALLED, THE MANUAL REQUIRED BY CALGREEN SECTION 4.410.1 SHALL INCLUDE INSTRUCTIONS TO THE OWNER OR OCCUPANT REGARDING THE NECESSITY FOR HEATING THE STRUCTURE AS REQUIRED IN SECTION R403.3 OF THE CALIFORNIA RESIDENTIAL CODE.

26. AS ALLOWED BY THE COUNTY OF SANTA CLARA, CEMENT USED IN FOUNDATION MIX DESIGN SHALL BE REDUCED NOT LESS THAN 20 PERCENT. RODUCTS COMMONLY USED TO REPLACE CEMENT IN CONCRETE MIX DESIGNS INCLUDE, BUT ARE NOT LIMITED TO:

- A. FLY ASH.
- B. SLAG.
- C. SILICA FUME.
- D. RICE HULL ASH.

27. BEAMS, HEADERS AND TRIMMERS SHALL BE SIZED AND INSTALLED AS SPECIFIED IN CHAPTER 23 OF THE CALIFORNIA BUILDING CODE, OR CHAPTER 6 OF THE CALIFORNIA RESIDENTIAL CODE, AS APPLICABLE. OTHER CALCULATIONS ACCEPTABLE TO THE COUNTY OF SANTA CLARA WHICH USE THE MINIMUM SIZE MEMBER FOR THE TRIBUTARY LOAD IS ACCEPTABLE.

28. BUILDING DIMENSIONS AND LAYOUTS SHALL BE DESIGNED TO MINIMIZE WASTE BY ONE OR MORE OF THE FOLLOWING MEASURES IN AT LEAST 80 PERCENT OF THE STRUCTURE:

- A. BUILDING DESIGN DIMENSIONS IN 2-FOOT INCREMENTS ARE USED.
- B. WINDOWS AND DOORS ARE LOCATED AT REGULAR 16" OR 24" STUD POSITIONS.
- C. OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

29. PREMANUFACTURED BUILDING SYSTEMS SHALL BE USED TO ELIMINATE SOLID SAWN LUMBER WHENEVER POSSIBLE. ONE OR MORE OF THE FOLLOWING PREMANUFACTURED BUILDING SYSTEMS IS USED:

- A. COMPOSITE FLOOR JOIST OR PREMANUFACTURED FLOOR FRAMING SYSTEM.
- B. COMPOSITE ROOF RAFTERS OR PREMANUFACTURED ROOF FRAMING SYSTEM.
- C. PANELIZED (SIPS, ICF OR SIMILAR) FRAMING SYSTEMS.
- D. OTHER METHODS APPROVED BY THE COUNTY OF SANTA CLARA.

30. MATERIAL LISTS SHALL BE INCLUDED IN THE PLANS WHICH SPECIFY THE MATERIAL QUANTITY AND PROVIDE DIRECTION FOR ON-SITE CUTS TO BE MADE FROM THE MATERIAL PROVIDED. MATERIAL LISTS AND DIRECTION SHALL BE PROVIDED FOR THE FOLLOWING SYSTEMS:

- A. FLOOR FRAMING.
- B. WALL FRAMING.
- C. CEILING AND ROOF FRAMING.
- D. STRUCTURAL PANELS AND ROOF SHEATHING.

31. UTILIZE PREFINISHED BUILDING MATERIALS WHICH DO NOT REQUIRE ADDITIONAL PAINTING OR STAINING WHEN POSSIBLE. ONE OR MORE OF THE FOLLOWING BUILDING MATERIALS THAT DO NOT REQUIRE ADDITIONAL RESOURCES FOR FINISHING ARE USED:

- A. EXTERIOR TRIM NOT REQUIRING PAINT OR STAIN.
- B. WINDOWS NOT REQUIRING PAINT OR STAIN.
- C. SIDING OR EXTERIOR WALL COVERINGS WHICH DO NOT REQUIRE PAINT OR STAIN.

32. CONCRETE FLOORS THAT DO NOT REQUIRE ADDITIONAL COVERINGS SHALL BE USED INCLUDING BUT NOT LIMITED TO STAINED, NATURAL OR STAMPED CONCRETE FLOORS.

33. USE MATERIALS, EQUIVALENT IN PERFORMANCE TO VIRGIN MATERIALS WITH A TOTAL (COMBINED) RECYCLED CONTENT VALUE (RCV) OF NOT BE LESS THAN 10 PERCENT OF THE TOTAL MATERIAL COST OF THE PROJECT.

REQUIRED TOTAL RCV (DOLLARS) = TOTAL MATERIAL COST(DOLLARS) × 10 PERCENT

FOR THE PURPOSES OF THIS SECTION, MATERIALS USED AS COMPONENTS OF THE STRUCTURAL FRAME SHALL NOT BE USED TO CALCULATE RECYCLED CONTENT. THE STRUCTURAL FRAME INCLUDES THE LOAD BEARING STRUCTURAL ELEMENTS, SUCH AS WALL STUDS, PLATES,SILLS, COLUMNS, BEAMS, GIRDERS, JOISTS, RAFTERS AND TRUSSES. SAMPLE FORMS WHICH ALLOW USER INPUT, LOCATED AT SHEET CG-4, MAY BE USED TO SIMPLIFY DOCUMENTING COMPLIANCE WITH THIS SECTION AND FOR CALCULATING RECYCLED CONTENT VALUE OF MATERIALS OR ASSEMBLY PRODUCTS.

SOURCES AND RECYCLED CONTENT OF SOME RECYCLED MATERIALS CAN BE OBTAINED FROM CALRECYCLE IF NOT PROVIDED BY THE MANUFACTURER.

FOR FURTHER INSTRUCTION SEE CALGREEN A4.405.3.

34. ONE OR MORE OF THE FOLLOWING MATERIALS MANUFACTURED FROM RAPIDLY RENEWABLE SOURCES OR AGRICULTURAL BY-PRODUCTS SHALL BE USED:

- A. INSULATION.
- B. BAMBOO OR CORK.
- C. ENGINEERED PRODUCTS.
- D. AGRICULTURAL BASED PRODUCTS.
- E. OTHER PRODUCTS ACCEPTABLE TO THE ENFORCING AGENCY.

THE INTENT OF THIS SECTION IS TO UTILIZE BUILDING MATERIALS AND PRODUCTS WHICH ARE TYPICALLY HARVESTED WITHIN A 10-YEAR OR SHORTER CYCLE.

35. INSTALL FOUNDATION AND LANDSCAPE DRAINS WHICH DISCHARGE TO A DRY WELL, SUMP, BIOSWALE OR OTHER APPROVED ON-SITE LOCATION.

36. INSTALL GUTTER AND DOWNSPOUT SYSTEMS TO ROUTE WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION OR CONNECT TO LANDSCAPE DRAINS WHICH DISCHARGE

TO A DRY WELL, SUMP, BIOSWALE, RAINWATER CAPTURE SYSTEM OR OTHER APPROVED ON-SITE LOCATION.

37. PROVIDE FLASHING DETAILS ON THE BUILDING PLANS WHICH COMPLY WITH ACCEPTED INDUSTRY STANDARDS OR MANUFACTURER'S INSTRUCTIONS. DETAILS SHALL BE SHOWN ON HOUSE PLANS AT ALL OF THE FOLLOWING LOCATIONS:

- A. AROUND WINDOWS AND DOORS.
- B. ROOF VALLEYS.
- C. DECK CONNECTIONS TO THE STRUCTURE.
- D. ROOF-TO-WALL INTERSECTIONS.
- E. CHIMNEYS TO ROOF INTERSECTIONS.
- F. DRIP CAPS ABOVE WINDOWS AND DOORS WITH ARCHITECTURAL PROJECTIONS.

38. PROTECT BUILDING MATERIALS DELIVERED TO THE CONSTRUCTION SITE FROM RAIN AND OTHER SOURCES OF MOISTURE.

39. EXTERIOR DOORS TO THE DWELLING SHALL BE COVERED TO PREVENT WATER INTRUSION BY ONE OR MORE OF THE FOLLOWING:

- A. AN AWNING AT LEAST 4 FEET IN DEPTH IS INSTALLED.
- B. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
- C. THE DOOR IS RECESSED AT LEAST 4 FEET.
- D. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.

40. A PERMANENT OVERHANG OR AWNING AT LEAST 2 FEET IN DEPTH SHALL BE PROVIDED AT ALL EXTERIOR WALLS.

41. NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS GENERATED AT THE SITE SHALL BE DIVERTED TO RECYCLE OR SALVAGE IN COMPLIANCE WITH THE FOLLOWING:

AT LEAST A 65 PERCENT REDUCTION. ANY MIXED RECYCLABLES THAT ARE SENT TO MIXED-WASTE RECYCLING FACILITIES SHALL INCLUDE A QUALIFIED THIRD PARTY VERIFIED FACILITY AVERAGE DIVERSION RATE. VERIFICATION OF DIVERSION RATES SHALL MEET MINIMUM CERTIFICATION ELIGIBILITY GUIDELINES, ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATES COMPLIANCE WITH THIS SECTION. DOCUMENTATION SHALL BE IN COMPLIANCE WITH CALGREEN SECTION 4.408.5.

42. USE COMPOSITE WOOD PRODUCTS MADE WITH EITHER CALIFORNIA AIR RESOURCES BOARD APPROVED NO-ADDED FORMALDEHYDE (NAF) RESINS OR ULTRA-LOW EMITTING FORMALDEHYDE (ULEF) RESINS.

DOCUMENTATION MUST BE PROVIDED THAT VERIFIES THAT FINISH MATERIALS ARE CERTIFIED TO MEET THE POLLUTANT EMISSION LIMITS.

43. AT LEAST 90 PERCENT OF THE TOTAL AREA OF RESILIENT FLOORING SYSTEMS INSTALLED IN THE BUILDING SHALL COMPLY WITH THE VOC-EMISSION LIMITS DEFINED IN AT LEAST ONE OF THE FOLLOWING:

- A. PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS,"VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.
- B. PRODUCTS CERTIFIED UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM.)
- C. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.
- D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH,"STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1,FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.)

DOCUMENTATION MUST BE PROVIDED THAT VERIFIES THAT FINISH MATERIALS ARE CERTIFIED TO MEET THE POLLUTANT EMISSION LIMITS IN THIS SECTION.

44. INSTALL THERMAL INSULATION IN COMPLIANCE WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE; PRODUCTS CERTIFIED UNDER THE UL GREENGUARD GOLD (FORMERLY GREENGUARD CHILDREN & SCHOOLS PROGRAM); OR MEET CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350).

DOCUMENTATION MUST BE PROVIDED THAT VERIFIES THE MATERIALS ARE CERTIFIED TO MEET THE POLLUTANT EMISSION LIMITS IN THIS SECTION.

45. PROVIDE FILTERS ON RETURN AIR OPENINGS RATED AT MERV 8 OR HIGHER DURING CONSTRUCTION.

46. DIRECT-VENT HEATING AND COOLING EQUIPMENT SHALL BE UTILIZED IF THE EQUIPMENT WILL BE LOCATED IN THE CONDITIONED SPACE OR INSTALL THE SPACE HEATING AND WATER HEATING EQUIPMENT IN AN ISOLATED MECHANICAL ROOM.

