

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.

					T TO COMPLETE ck Review Data	Ins	staller or Designer Verification
ITE	M #	CALGreen CODE SECTION	REQUIREMENT	REFERENCE SHEET	Note or Detail No.	Date	Installer or Designer Signature
		51011011	PLANNING AND DESIGN: MANI				
	1		A plan is developed and implemented	CG-3	NOTE 1		
	1	4.106.2	to manage storm water drainage during construction.				
			Construction plans indicates how site	CG-3	NOTE 2		
	2	4.106.3	grading or a drainage system will				
			manage all surface water flows to keep water from entering buildings.				
			For new dwellings and the rebuild of				
			existing dwellings that include a panel				
	3	4.106.4.1	upgrade or construction between panel and parking area, a raceway to a	CG-3	NOTES 3 & 4		
			dedicated 208/240-volt branch circuit				
			meeting the requirements, is installed.	ANDATOON	DEGUIDENES		
			PLANNING AND DESIGN: TIER 1 M Displaced topsoil is stockpiled for reuse		KEQUIKEMENTS		
	4	A4.106.2.3	in a designated area and covered or	CG-4	NOTE 7		
			protected from erosion. Not less than 20 percent of the total				
	5	A4.106.4	parking, walking or patio surfaces are	CG-4	NOTE 9		
			permeable.				
			For new dwellings with attached private garages, a dedicated 208/240-				
	6	A4 100 0 1	volt branch circuit including an				
	6	A4.106.8.1	overcurrent protective device is	CG-4	NOTE 12		
			installed in the raceway, meeting the applicable requirements.				
			PLANNING AND DESIGN: TIER 1	ELECTIVE R	EQUIREMENTS		
	7	AA 102 1	An infill site, greyfield site or EPA-	CG-4	NOTE 1		
Ø	L'	A4.103.1	recognized and Brownfield site is applicable.	CG-4	NOTE 1		
pplicable	8	A4.103.2	Community connectivity is facilitated	CG-4	NOTE 2		
olic	<u> </u>		by one of the approved methods. An individual with oversight				
σ			responsibility for the project has				
	9	AA 104 1	participated in an educational program	CC 4	NOTE 2		
VS I	9	A4.104.1	promoting environmentally friendly design or development and has	CG-4	NOTE 3		
rov			provided instruction to appropriate				
Cross out the rows not			entities.				
, t			Existing buildings are disassembled for				
0 S	10	A4.105.2	reuse or recycling of building materials. The proposed structure utilizes at least	CG-4	NOTE 4		
, ros			one of the listed materials.				
	11		Soil analysis is performed by a licensed				
Ires		A4.106.2.1	design professional and the findings are utilized in the structural design of	CG-4	NOTE 5		
asu			the building.				
elective measures	4.0	A 4 4 9 5 5 5	Soil disturbance and erosion are		NOTE		
ive	12	A4.106.2.2	minimized by using one or more of the methods listed	CG-4	NOTE 6		
lect			Landscape areas disrupted during				
			construction are restored to be consistent with native vegetation				
ier	13	A4.106.3	and/or at least 75% native California	CG-4	NOTE 8		
F o			or drought tolerant plant and tree are				
Comply with at least two Tier 1			utilized. A vegetated roof for at least 50% of				
ast	14	A4.106.6	the roof area is installed. Vegetated	CG-4	NOTE 10		
r le	14	0.00177	roof complies with CBC chapters 15 and 16.	0.0-4			
r. e			Nonroof heat islands are reduced for				
wit	15	A4.106.7	50% of sidewalks, patios, driveways,	CG-4	NOTE 11		
plγ			or other paved areas by using one or more of the methods listed.				
E E	 		Outdoor lighting systems are designed	CG-4	NOTE 13		
	16	A4.106.10	and installed to comply with one of the	CG-4			
			methods listed.	CG-1	TABLE A4.106.10		
			ENERGY EFFICIENCY: MAND	ATORY REQ		1	
1	L7	4.201.1	Building meets or exceeds the requirements of the California Building	T24			
			Energy Efficiency Standards.	SHEETS			
		W	ATER EFFICIENCY & CONSERVATION	N: MANDATO	DRY REQUIREME	NTS	
			Plumbing Fixtures (water closets and urinals) and fittings (faucets and				
1	18	4.303.1	showerheads) installed in residential	CG-3	NOTE 5		
		4.505.1	buildings comply with CALGreen Sections 4.303.1.1 through				
			4.303.1.4.4.				
			Plumbing fixtures and fittings required				
1	19	4.303.2	in CALGreen Section 4.303.1 are installed in accordance with the CPC	CG-3	Note 6		
	-		and meet the applicable referenced				
			standards. Outdoor potable water use in				
			landscape areas comply with a local				
2	20	4.304.1	water efficient landscape or the current	CG-3	Note 7		
			California DWR MWELO, whichever is more stringent.				
			For new dwellings where disinfected				
2	21	4.305.1	tertiary recycled water is available,	CG-3	Note 8		
			installation of recycled water supply system is required per CPC chapter 15.				
1		•				-	

			T TO COMPLETE	Ind	staller or Designer
CALGreen		Plan Chec	k Review Data		Verification
CODE SECTION	REQUIREMENT	REFERENCE SHEET	Note or Detail No.	Date	Installer or Designer Signature
WA1 A4.303.1	ER EFFICIENCY & CONSERVATION : Kitchen faucet maximum flow rate does not exceed 1.5 gpm at 60 psi. See exceptions.	CG-4	NOTE 14	MENTS	
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		
A4.303.3	At least one qualified ENERGY STAR dishwasher or clothes washer is	CG-4	NOTE 16		
A4.303.4	installed. Nonwater urinals or composting toilets are installed.	CG-4	NOTE 17		
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		
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		
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		
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		
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		
A4.305.2	Dual water piping is installed for future use of recycled water at listed locations.	CG-4	NOTE 23		
A4.305.3	Recycled water is used for landscape irrigation.	CG-4	Note 24		
4.406.1	L CONSERVATION & RESOURCE EFFI 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	CG-3	Note 9	JIREME	N15
4.408.1	Santa Clara. 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		
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		
4.410.1	An operation and maintenance manual is placed in the building at the time of final inspection.	CG-3	Note 12		
ATERIAL CO A4.403.2	DNSERVATION & RESOURCE EFFICIE Reduction in cement use in foundation	NCY: TIER 1 CG-4	MANDATORY R	EQUIRE	MENTS
A4.405.3.1	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	CG-4	Note 33		
A4.408.1	material. Reduce construction waste by at least 65%. Documentation is submitted to the County of Santa Clara demonstrating compliance.	CG-2	Construction Waste Management Forms		
MATERIAL	CONSERVATION & RESOURCE EFFICI A Frost-Protected Shallow Foundation	CG-34 ENCY: TIER	Note 41	QUIREM	IENTS
A4.403.1	(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		
A4.404.1	Beams, headers and trimmers are sized and installed as specified in Chapter 23 of CBC or Chapter 6 of CRC. Building dimensions and layouts are	CG-4	NOTE 27		
A4.404.2	designed to minimize waste by one or more of the listed measures in at least 80% of the structure.	CG-4	NOTE 28		
A4.404.3	Premanufactured building system, as listed, is used to eliminate solid sawn lumber	CG-4	NOTE 29		
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. Prefinished building materials are	CG-4	NOTE 30		
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		
A4.405.2	Concrete floors that do not require additional coverings are used. One or more of the listed materials	CG-4	NOTE 32		
A4.405.4	from rapidly renewable sources or agricultural byproducts are used. Foundation and landscape drains with	CG-4	NOTE 34		
A4.407.1	discharge to an approved on-site location is installed. Roof gutter and downspout system is	CG-4	NOTE 35		
A4.407.2	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		
A4.407.3	Flashing details complying with accepted industry standards or manufacturer's instructions are provided on the plans. Building materials delivered to the	CG-4	NOTE 37		
A4.407.4	construction site are protected from rain and other sources of moisture. Exterior doors are covered to prevent	CG-4	NOTE 38		
A4.407.6	water intrusion by one or more listed methods. A permanent overhang or awning at	CG-4	NOTE 39		
A4.407.7	least two feet in depth is provided at all exterior walls.	CG-4	Note 40		

				ANT TO COMPLET	E In	staller or Designer
	CALGreen CODE SECTION		REFEREN		· ·	Verification Installer or Designe
ITEM #	SECTION	REQUIREMENT ENVIRONMENTAL QUALITY Any installed gas fireplace is a dir vent sealed-combustion type. An	rect-		Date	Signature
54	4.503.1	installed woodstove or pellet stov comply with US EPA Phase II emi limits where applicable.	re CG-3 ssion	Note 13		
55	4.504.1	Duct openings and other related distribution component openings covered during construction until startup of the HVAC equipment.	are CG-3	Note 14		
56	4.504.2.1	Adhesives, sealants and caulks and compliant with VOC and other to compound limits.	kic CG-2	Table 4.504.1 Table 4.504.2 Note 15 Table 4.504.3	2	
57	4.504.2.2	Architectural paints and coatings compliant with VOC limits. Aerosol paints and coatings are	CG-3	Note 16		
58	4.504.2.3	compliant with product weighted 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 the compliant VOC limit finish materi have been used.	hat CG-3	Note 18		
60	4.504.3	Carpet and carpet systems meet applicable testing and product requirements.	CG-3	Table 4.504.1 Note 19		
61	4.504.5	Hardwood plywood, particleboard medium density fiberboard comp wood meet formaldehyde limits. Documentation is provided to the	and CG-1 osite 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 brea installed at slab-on-grade founda Moisture content of building mate	tions. CG-3 erials	Note 23		
64	4.505.3	used in wall and floor framing do exceed 19% prior to enclosure ar checked before enclosure. Insular products are dry prior to enclosure	nd is CG-3 tion	Note 24		
65	4.506.1	products are dry prior to enclosur Each bathroom is mechanically ventilated and comply with applic requirements.	able CG-3	Note 25		
66	4.507.2	Heating and air-conditioning syst are sized, designed, and equipme selected by using one of the met	ent is	Note 26		
67	A4.504.2	listed. ENVIROMENTAL QUALITY: TI At least 90% of resilient flooring	ER 1 MANDATO	RY REQUIREMEN Note 43		
68	A4.504.3	complies with applicable VOC lim Thermal insulation in the building installed in compliance with appli standards.	is	Note 44		
ble USS	9 A4.504.1	ENVIROMENTAL QUALITY: 1 Composite wood products made		E REQUIREMENT	s	
Comply with at least one Tier 1 elective measures - Cross out the rows not applicable		NAF or ULEF resins are used. Filters at MERV 8 or higher are us return air openings, during		Note 45	+	
ith at le		construction. Direct vent heating and cooling equipment are utilized where the				
ut the ro	1 A4.506.3	equipment will be located in the conditioned space or the space he and water heating equipment is installed in an isolated mechanica	_	Note 46		
		room. R AND SPECIAL INSPECTOR QU HVAC system installers are traine	ALIFICATIONS		EQUIREM	1ENTS
72	702.1	certified in the proper installation HVAC systems. If required by County of Santa Cl	of CG-3 ara,	Note 27		
73	702.2	owner or owner's agent shall emp special inspector who are qualifie able to demonstrate competence discipline they are inspecting.	d and CG-3	Note 28		
		Documentation used to show compliance with this code may in construction documents, plans,				
74	703.1	specifications, builder or installer certification, inspection reports, c other methods acceptable to Cou	nty of	Note 29		
		Santa Clara which show substant conformance.	Idl			
Maximum	TABLE 4. FORMALDEHY Formaldehyde Emis PRODUCT					
Hardwood plyv	wood veneer core wood composite core	0.05				
articleboard Iedium density	ty fiberboard density fiberboard ²	0.09 0.11 0.13				
. Values in this t Resources Boa	table are derived from ard, Air Toxics Contro	those specified by the California Air l Measure for Composite Wood as 333. For additional information, see				
California Code	de of Regulations, Title 1	17, Sections 93120 through 93120.12. haximum thickness of $\frac{5}{16}$ inch (8 mm).				
	MAXIN	TABLE A4.10 MUM ALLOWABLE BACKLIGHT, UPLIC E RATING		•		GHTING ZONE
Luminaire grea	lowable Backlight R ater than 2 mounting	Rating ³ heights (MH) from property line N		o Limit No L		No Limit
Luminaire back	k hemisphere is 0.5 -	2 MH from property line - 1 MH from property line than 0.5 MH from property line	B2 B1 B0	B3 B4 B2 B3 B0 B	3	B4 B3 B2
Maximum Alle For area lightin	lowable Uplight Rat	ing	U0	U0 U	0	U0
Maximum Alle	utdoor lighting, inclu lowable Glare Ratin ater than 2 MH from	о 	U1 G1	U2 U2 G2 G2		U4 G4
Luminaire fron	nt hemisphere is $1-2$	2 MH from property line - 1 MH from property line	G1 G0 G0 G0	G2 G1 G0 G	1	G2 G1
1. IESNA Lightin Administrative	ing Zones 0 and 5 are <i>e Code</i> .	than 0.5 MH from property line not applicable; refer to Lighting Zones as c			hapter 10 of	
 For property line line for purpose considered to b If the nearest parts 	ines that abut public was se of determining compl be the centerline of the property line is less th	alkways, bikeways, plazas and parking lots, the liance with this section. For property lines that public roadway or public transit corridor for t an or equal to two mounting heights from t	abut public roadways he purpose of determi	and public transit corrid ning compliance with thi	ors, the prope s section.	erty line may be
Backlight ratin General lightin shall meet U-va . If the nearest p	ng shall be met. ng luminaires in areas su value limits for "all othe property line is less thar	uch as outdoor parking, sales or storage lots sh	all meet these reduced	ratings. Decorative lum	inaires locate	ed in these areas
rating shall be			r 57 di			
dent	tial P	roject Mar	ndato	ry and	d T	ier1 R
		J			-	

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					
Resources Board, Air Toxics Control Measure for tested in accordance with ASTM E1333. For addi <i>California Code of Regulations</i> , Title 17, Sections 93 2. Thin medium density fiberboard has a maximum thick MAXIMUM ALLOV	tional information, see 3120 through 93120.12.					
ALLOWABLE RATING						
Maximum Allowable Backlight Rating ³						
Luminaire greater than 2 mounting heights (MH) from property line						
Luminaire back hemisphere is 1 – 2 MH from property line						
Luminaire back hemisphere is 0.5 – 1 MH from property line						

		CALGreen CODE		REFERENCE	k Review Data	_	Verification Installer or Designer
	ITEM #	SECTION	ENVIRONMENTAL QUALITY: MA	SHEET NDATORY RI	No. EQUIREMENTS	Date	Signature
	54	4.503.1	vent sealed-combustion type. Any installed woodstove or pellet stove	CG-3	Note 13		
			limits where applicable.				
	55	4.504.1	distribution component openings are covered during construction until final	CG-3	Note 14		
	56	4.504.2.1	Adhesives, sealants and caulks are compliant with VOC and other toxic		Table 4.504.2		
			compound limits. Architectural paints and coatings are		Note 15		
	57	4.504.2.2	compliant with VOC limits.	CG-3	Note 16		
	58	4.504.2.3	compliant with product weighted MIR limits for ROC and other toxic	CG-3	Note 17		
	50	4 504 2 4	Documentation are provided to the County of Santa Clara to verify that			<u> </u>	
	59	4.504.2.4	compliant VOC limit finish materials have been used.				
	60	4.504.3	applicable testing and product requirements.	CG-3	Note 19		
	61	4.504.5	Hardwood plywood, particleboard and medium density fiberboard composite	CG-1	Table 4.504.5		
		4 50	Documentation is provided to the				
	62	4.504.5.1	composite wood meets applicable formaldehyde limits.	CG-3	Note 22		
	63	4.505.2	installed at slab-on-grade foundations.	CG-3	Note 23		
	64	4.505.3	used in wall and floor framing do not exceed 19% prior to enclosure and is	CG-3	Note 24		
			checked before enclosure. Insulation products are dry prior to enclosure.				
	65	4.506.1	ventilated and comply with applicable	CG-3	Note 25		
	66	4.507 2	Heating and air-conditioning systems are sized, designed, and equipment is	CG-3	Note 26		
<form> a) where the presence of the p</form>			listed.			6	
	67	A4.504.2	At least 90% of resilient flooring complies with applicable VOC limits.				
The second set of	68	A4.504.3	Thermal insulation in the building is installed in compliance with applicable	CG-4	Note 44		
Instruction and procession in the local and l			ENVIROMENTAL QUALITY: TIER		REQUIREMENTS		
Instruction and procession in the local and l	out the rows not applicable 20 70 71 71	A4.504.1	NAF or ULEF resins are used.		Note 42		
Instruction and procession in the local and l	t appl	A4.506.2	return air openings, during		Note 45		
Instruction and procession in the local and l	ou sw		Direct vent heating and cooling				
Instruction and procession in the local and l	9 71	A4.506.3	equipment will be located in the conditioned space or the space heating	CG-4	Note 46		
Instruction and procession in the local and l	out t		installed in an isolated mechanical				
<form> mining of the second control of the second control of the contro</form>			R AND SPECIAL INSPECTOR QUALIF HVAC system installers are trained and			UIREM	ENTS
<form> not not not not not not not not not not</form>	72	702.1	certified in the proper installation of HVAC systems.		Note 27		
	73	702.2	owner or owner's agent shall employ special inspector who are qualified and		Note 28		
			able to demonstrate competence in the discipline they are inspecting.				
And methods between the set of			compliance with this code may include construction documents, plans,				
Image: Note of the basic statistical indication of the statistical indindication of the statistical indication of the statist	74	703.1	certification, inspection reports, or		Note 29		
Default Proventing The Construction of the Construction o			Santa Clara which show substantial				
The transformed by the transformed protocy for the tran			.504.5				
diplowed comparison on diplomediation of the diplomediati	laximum Forma	aldehyde Emi	ssions in Parts per Million				
The second s	vood plywood v	veneer core	0.05				
Implementation 0.1 The stars where the two the stars where the	eboard	-	0.09				
Strategy and Trades Cancel Measure for Composite Weight Strategy and Measure Strategy and Str	medium density	fiberboard ²	0.13				
tic disk of globalance, Table 17: Sections 93:20 if more globalance if the section of globalance in the section of the sectin section of the section of the section of th	ources Board, Air d in accordance v	r Toxics Contro with ASTM E13	1 Measure for Composite Wood as 333. For additional information, see				
MAXIMUM ALLOWABLE BACKUGHT, UPLEHT AND GLARE (BUG) RATING3'* ALLOWABLE RATING UPLICIT AND GLARE (BUG) RATING'* Malowable EARTING UPLICIT AND GLARE (BUG) RATING'* Malowable EARTING UPLICIT AND GLARE (BUG) RATING'* The allowable EARTING UPLICIT AND GLARE (BUG) RATING'* WIGHT AND GLARE (BUG) RATING'* Colspan="2">Colspan= 200 Colspan="2">Colspan="2">Colspan="2">Colspan= 200 Colspan="2" Colspan="2">Colspan="2">Colspan= 200 Colspan="2" Colspan="2">Colspan= 200 Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan= 200 Colspan= 200 Colspan= 200 Colspan="2" Colspan= 200 Colspan= 200 Colspan= 200 Colspan= 200 Colspan= 200 Colspan="2" Colspan= 200 Colspan=	fornia Code of Reg	gulations, Title 1	7, Sections 93120 through 93120.12.				
Image: Contract Name 1 2 3 4 m Alvoable Charliship karisis i		MAXIN	TABLE A4.106.10 NUM ALLOWABLE BACKLIGHT, UPLIGHT AN	ID GLARE (BUG	6) RATINGS ^{1,2}		
e greater than 2 mounting heights (MH) from property line No Limit No Limit No Limit No Limit No Limit to tack hemisphere is 15 - 1 MH from property line B2 B3 B3 B4 B4 B4 e back hemisphere is 15 - 5 - 1 MH from property line B1 B2 B3 B3 m Allowable Uplight Rating m Control Tripperty 100 B0 B0 B1 B2 m Control Fight Rating m Control F		ALLOWABL	E RATING LIGHTING Z		-		GHTING ZONE 4
what hemisphere is 0.5 - 1 MH from property line B1 B2 B3 B3 what hemisphere is less than 0.5 MH from property line B0 B1 B2 m Alowable Uplight Rating	naire greater tha	an 2 mounting	heights (MH) from property line No Limit			it	
e back hemisphere is less than 0.5 MH from property line <u>B0</u> <u>B0</u> <u>B1</u> <u>B2</u> m Allowable Uplight Rating is crudoor lighting , including decorative luminaires U1 U2 U3 U4 m Allowable Clare Rating e greater than 2 MH from property line <u>G1</u> <u>G2</u> <u>G3</u> <u>G4</u> e front hemisphere is 1 - 2 MH from property line <u>G0</u> <u>G1</u> <u>G1</u> <u>G2</u> e front hemisphere is 0.5 - 1 MH from property line <u>G0</u> <u>G0</u> <u>G1</u> <u>G1</u> <u>G2</u> e ack hemisphere is 0.5 - 1 MH from property line <u>G0</u> <u>G0</u> <u>G0</u> <u>G1</u> <u>G1</u> e back hemisphere is 0.5 - 1 MH from property line <u>G0</u> <u>G0</u> <u>G0</u> <u>G0</u> <u>G1</u> e back hemisphere is 0.5 - 1 MH from property line <u>G0</u> <u>G0</u> <u>G0</u> <u>G0</u> <u>G1</u> e back hemisphere is 0.5 - 1 MH from property line <u>G0</u> <u>G0</u> <u>G0</u> <u>G0</u> <u>G1</u> e back hemisphere is 0.5 - 1 MH from property line <u>G0</u> <u>G0</u> <u>G0</u> <u>G0</u> <u>G1</u> e back hemisphere is 0.5 - 1 MH from property line <u>A0</u> <u>D0</u> <u>B0</u> <u>B0</u> <u>B0</u> <u>B0</u> <u>B0</u> <u>B0</u> <u>B0</u> <u>B</u>		-					
lighting- incutoor lighting, including decorative luminaires U0 U0 U0 U0 her outdoor lighting, including decorative luminaires U1 U2 U3 U4 m Allowable Glare Rating*	naire back hemi	isphere is less	than 0.5 MH from property line B0	B) B1		
m Allowable Glare Rating ⁶ m m m m m Allowable Glare Rating ⁶ m m	rea lighting ⁴		U0				
re front hemisphere is 1–2 MH from property line <u>G0</u> <u>G1</u> <u>G1</u> <u>G1</u> <u>G2</u> e front hemisphere is 0.5 – 1 MH from property line <u>G0</u> <u>G0</u> <u>G0</u> <u>G1</u> <u>G1</u> <u>e back hemisphere is less than 0.5 MH from property line <u>G0</u> <u>G0</u> <u>G0</u> <u>G0</u> <u>G0</u> <u>G1</u> Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the <i>California Energy Code</i> and Chapter 10 of the <i>California Code</i>. Perty line shat abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property purpose of determining compliance with this section. For property line may be considered to be 5 feet beyond the actual property purpose of determining compliance with this section. Corridors the purpose of determining compliance with this section. acrest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced that use limits for "all other outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas et U-value limits for "all other outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaire distribution, the applicable reduced Glare all be met. Intial Project Mandatory and Tier1 Requirements</u>	mum Allowabl	le Glare Ratin	- 195				
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earest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced in these areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas such us outdoor lighting." arest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare and be met.	for purpose of det sidered to be the co	termining compl centerline of the	liance with this section. For property lines that abut pupulic roadway or public transit corridor for the purp	blic roadways and ose of determining	public transit corridors, compliance with this se	the prope	rty line may be
ntial Project Mandatory and Tier1 Requirements	he nearest property klight rating shall eral lighting lumir	ty line is less th be met. naires in areas su	an or equal to two mounting heights from the back uch as outdoor parking, sales or storage lots shall mee	hemisphere of th	e luminaire distributior	, the appl	
ntial Project Mandatory and Tier1 Requirements	l meet U-value lin	mits for "all othe	er outdoor lighting."		-		
ntial Project Mandatory and Tier1 Requirements	se met.						
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CALGreen One or Two Family Re County of Santa Clara

TABLE 4.504.1 ADHESIVE VOC LIMIT^{1, 2}

Less Water and Less Exempt Compounds 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
VCT and asphalt tile 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	30
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

> TABLE 4.504.2 SEALANT VOC LIMIT

1168.

SEALANTS	VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural Nonporous Porous	250 775
Modified bituminous	500
Marine deck	760
Other	750

Less Water and Less Exempt Compounds COATING CATEGORY VOC LIMIT						
Flat coatings	50					
Nonflat coatings	100					
Nonflat-high gloss coatings	150					
SPECIALTY COATINGS	100					
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)	500					
High temperature coatings	420					
ndustrial maintenance coatings	250					
Low solids coatings ¹	120					
Magnesite cement coatings	450					
Mastic texture coatings	100					
Metallic pigmented coatings	500					
Multicolor coatings	250					
Pretreatment wash primers	420					
Primers, sealers, and undercoaters	100					
Reactive penetrating sealers	350					
Recycled coatings	250					
Roof coatings	50					
Rust preventative coatings	250					
Shellacs						
Clear Opaque	730					
	550					
Specialty primers, sealers and undercoaters	100					
Stains Stope consolidents	250					
Stone consolidants Swimming pool coatings	450					
Fraffic marking coatings	340					
Fub and tile refinish coatings	100 420					
Waterproofing membranes	250					
Wood coatings	250					
Wood preservatives	350					
Zinc-rich primers						
and-nen primers	340					

TABLE 4.504.3

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.

Table 1 - Recycled Content Value Calculations

Table 1 - Recycled Content Value Calculations								
Α	В	C	D	E	F	G	Н	
		Recycled		Post-	Pre-			
		Content	Material/	Consumer	Consumer	Recycled	Recycled	
		Information	Assembly	Recycled	Recycled	Content	Content	
Material/Assembly *	Manufacturer	Source	Cost (\$)	Content (%)	Content (%)	(%)	Value (\$)	
				Total Recy	cled Conten	t Value (\$):		
For calculating the total ma	aterial cost, choose ONL	Y ONE of the three o	ptions below:					
1.Size of project (sf):		Cost per sf:		x 45% =				
2.Estimated project cost	t/valuation (\$):	x 45% = Total Material Cost (\$):						
3.Sum of estimated and/or actual cost of materials used in the project = Total Material Cost (\$):								
Total Recycled Content Value as a percentage of the Total Material Cost:								
* Materials used as components of the structural frame shall not be used to calculate recycled content. The structural frame includes the load bearing								
* Materials used as compon structural elements, such as						rame includes	ine load bearing	
The sum of post-consumer and pre-consumer recycled contents of each material cannot exceed 100%.								

Construction Waste Management (CWM) Plan

		Fill out the form including diversion
F	Project Name:	
J	ob #:	
		npany:
	-	

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 _____%.

- is generated on this jobsite will be diverted from the landfill and recycled 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.
- tractor 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 writposted at the jobsite trailer.
- donated to charity if feasible.

ensure the highest waste 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:
- four (4) pounds per square foot of building area.
- tion percentage calculations.

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 hauled and the waste diversion rate 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 does not service any or all of the debris boxes on the project, the will work that 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. 9. 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.

10. 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 the project Superintendent will, as deemed appropriate, allocate specific areas onsite where individual material types are to be consolidated. These collection points are not to be contaminated with non-designated waste types.

11. Debris from jobsite office and meeting rooms will be collected by will, at a minimum, recycle office paper, plastic, metal and cardboard.

SSEMBLY PRODUCT:								
Α	В	С	D	E	F	G	Н	- I
			Post-	Post-	Pre-	Pre-	Proportional	Proportion
			Consumer	Consumer	Consumer	Consumer	Post-	Pre-
	Material	Material	Recycled	Recycled	Recycled	Recycled	Consumer	Consume
Assembly Product**	Weight (lb)	Weight (%)	Content(lb)	Content (%)	Content(lb)	Content (%)	Content (%)	Content (%
Total Weight:								
			Assei	mbly Post-Co	nsumer Recyc	cled Content:		
Assembly Pre-Consumer Recycled Content:								
Use one sheet per asser	nbly product				,			
Materials used as components of the structural frame shall not be used to calculate recycled content. The structural frame includes the load earing structural elements, such as wall studs, plates, sills, columns, beams, girders, joists, rafters, and trusses.								
e sum of post-consumer and pre-consumer recycled contents of each material in the assembly product cannot exceed 100%.								
THE SUTH OF DOST-CONSUME	er and pre-cons	sumer recycle	u contents of ea	ach material in t	the assembly p	ouuci cannoi e	xceeu 100%.	

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

- agency.

Responsible Perso

Date Signed:

on rate and facility nam	es and addresses
Legend:	
	- Hauling Company
	Sorting Facility Name and Location
	■ Disposal Service Company

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 reusing materials whenever possible. The majority of the waste that

4. Waste prevention and recycling activities will be discussed at the beginning of weekly subcontractor meetings. As each new subcon-

ing that they have read and will abide by the CWM Plan. Subcontractor Acknowledgment Sheet enclosed. The CWM Plan will be 5. Salvage: Excess materials that cannot be used in the project, nor returned to the vendor, will be offered to site workers, the owner, or

6. 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 _____%. As site conditions permit, additional drop boxes will be used for particular phases of construction (e.g., concrete and wood waste) to

1. Waste stream reduction refers to efforts taken by the builder to reduce the amount of waste generated by the project to below

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 reduc-

Table 2 - Assembly Product Recycled Content Calculations *

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

n's Name:	Responsible Person's Signature:
	Position/Title:
	Attachments:

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

Construction Waste Management (CWM) Worksheet

					form may be used to assist in documenting co		6 1
Project Name:				Project Name:			
Iob Number:				Ich Number			
				Job Number:			
Project Manager:				Project Manager:			
Waste Hauling Company:	CWM) Plan			Waste Hauling Company:			
Construction waste Management (C	wm) Plan			CWM Plan Acknowledgment			
	DIVERSION	METHOD.					
WASTE MATERIAL TYPE	COMMINGLED AND SORTED OFF SITE	SOURCE SEPARATED ON SITE	PROJECTED DIVERSION RATE	The Foreman for each new Sul complete this Acknowledgment	bcontractor that comes on site is to receive a coj t Form.	py of the Construction Waste N	Aanagement Plan and
Asphalt					ent Plan for the project; I understand the goals of th	is plan and agree to follow the pr	oooduroo doooribad in t
Concrete				plan.	and Fran for the project, I understand the goals of th	is plan and agree to follow the pl	ocedures described in t
Shotcrete				DATE	SUBCONTRACTOR COMPANY NAME	FOREMAN NAME	SIGNATURE
Metals							GIGNATORE
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:							

Α	, B	С	D	unds to %) *	F	
		Post-	Post-	_	•	
		Consumer	Consumer	Pre- Consumer	Pre- Consume	
	Material	Recycled	Recycled	Recycled	Recycled	
Type of Material	Weight (lb)	Content(lb)	Content (%)	Content(lb)	Content (%)	
hen the Post-Consumer and I y be used for calculating the p embly calculations. <u>o 1</u> - Insert the type of material in	percentages of th	-	-			
<u>p 2</u> - Insert the weight of materia		manufacturer or of	ther source) into C	Column B.		
ep <u>3</u> - Insert the weight of Post-Co	onsumer Recycled	Content (provided	I by the manufactu	irer or other source) into Column C.	
ep 4 - Insert the weight of Pre-Co	nsumer Recycled (Content (provided	by the manufactur	er or other source)	into Column E.	
<u>ep 5</u> - Divide the values in Colum aterial in percentages into Colum		n Column B; inser	t the Post-Consum	er Recycled Conte	nt of each	
<u>ep 6</u> - Divide the values in Colum percentages into Column F.	n E by the values i	n Column B; insert	t the Pre-Consume	r Recycled Conten	t of each material	
<u>ep 7</u> - Transfer the percentages o ble 1, Columns E and F.	f Post-Consumer a	Ind Pre-Consumer	Recycled Content	from Column D an	d Column F to	

Construction	Waste	Management	(CWM)	Acknowledgment
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Note: This sample form may be used to assist in documenting compliance with the waste management plan

umber:			
et Manager:			
Hauling Company:			
Plan Acknowledgment			
oreman for each new Subcontr ete this Acknowledgment Forn	actor that comes on site is to receive a o 1.	copy of the Construction Waste Ma	nagement Plan a
read the Waste Management Plan	n for the project; I understand the goals of	this plan and agree to follow the proce	edures described in
DATE	SUBCONTRACTOR COMPANY NAME	FOREMAN NAME	SIGNATURE



Information

Project



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 EOUIPMENT (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.

RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), 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.

- CLARA.
- SALVAGE FOR FUTURE USE OR SALE.
- WASTE MATERIAL WILL BE TAKEN.
- CONSTRUCTION AND DEMOLITION WASTE GENERATED.
- shall be calculated by weight or volume, but not by both.
- 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. 2010 (ALSO KNOWN AS SPECIFICATION 01350.)
- C. NSF/ANSI 140 AT THE GOLD LEVEL.

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. 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

1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR

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

4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF

5. Specify that the amount of construction and demolition waste materials diverted

B. A WASTE MANAGEMENT COMPANY CAN BE UTILIZED IF APPROVED BY THE COUNTY

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

D. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD.

- 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 \leq 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 One or Two Family Residential Project Mandatory and Tier1 Requirements County of Santa Clara



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 1/4 MILE TRUE WALKING DISTANCE OF AT LEAST FOUR BASIC SERVICES, READILY ACCESSIBLE BY PEDESTRIANS.
- B. LOCATE PROJECT WITHIN A ¹/₂ 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).

- LEAST 0.30 AS DETERMINED IN ACCORDANCE ASTM E1918 OR C1549. C. USE OPEN GRID PAVEMENT SYSTEM OR PERVIOUS OR PERMEABLE PAVEMENT SYSTEM.
- 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:

- CODE; AND
- AND
- A4.106.10

EXCEPTIONS:

- 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 CALIFORNIA BUILDING STANDARDS CODE AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- A. USE OF CAPTURED RAINWATER.
- B. USE OF RECYCLED 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:

B. USE HIGH ALBEDO MATERIALS WITH AN INITIAL SOLAR REFLECTANCE VALUE OF AT

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

A. THE MINIMUM REQUIREMENTS IN THE CALIFORNIA ENERGY CODE FOR LIGHTING ZONES 1-4 AS DEFINED IN CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE

B. BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS AS DEFINED IN IES TM-15-11;

C. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN IN CALGREEN TABLE

1. LUMINAIRES THAT QUALIFY AS EXCEPTIONS IN THE CALIFORNIA ENERGY CODE.

C. WATER TREATED FOR IRRIGATION PURPOSES AND CONVEYED BY A WATER

- 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 I ON-SI

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

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