

GENERAL

- Provide each bedroom, basement, and habitable attics with a minimum of one exterior window with a 44" maximum clear opening height, 5.7 sq. ft. minimum clear openable area (minimum 5.0 sq. ft. at grade floor openings), 24" minimum clear openable height and 20" minimum clear width, or an operable exterior exit door. (CRC R310.2.1 and CRC R310.2.2) Window wells, ladders, and steps shall comply with CRC R310.2.3. Bars, grilles, covers, and screens shall be releasable or removable from the inside without the use of a key, tool, special knowledge, or force greater than 15lbs to operate the emergency escape and rescue openings. (CRC R310.4)
- Each bathroom containing a bathtub, shower or tub/shower combination shall be mechanically ventilated with Energy Star approved equipment (minimum 50cfm) with an integral humidistat installed. (CRC R303.3.1)
- Provide attic cross ventilation: 1/150 of attic area or 1/300 with at least 40% but more than 50% of vents are 3 ft. above eave and balance is at eave. As an alternative in Climate Zone 16 (Truckee region), the net area may be reduced to 1/300 when a Class I or II vapor barrier is installed on the warm-in-winter side of the ceiling. Baffles are required at vents for insulation. Provide minimum of 1" inch of air space between insulation and roof sheathing. (CRC R806)
- Enclosed rafter spaces shall have 1 inch clear cross ventilation. (Properly sized rafters for insulation) (CRC R806.3)
- Under floor cross ventilation: minimum 1.0 sq. ft. for each 150 sq. ft. of under floor area. When a class I vapor retarder is installed on the ground surface the minimum area of ventilation may be limited to 1sq.ft for each 1,500 square feet of under-floor space. One ventilation opening shall be within three (3) feet of each corner of the building (CRC R408.1.) Unvented crawl spaces shall comply with CRC R408.3.
- The following areas shall have safety glazing: (CRC R308.4)

- Sliding/swinging glass doors
 - Glazing in walls and enclosures facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers and swimming pools where the glazing is less than 60 inches above the standing surface within the compartment and within 60 inches horizontally of the water's edge (CRC R308.4.5)
 - Glazing within a 24" arc of a door that is less than 60 inches above the floor. Glazing installed perpendicular to a door in a closed position and within 24 inches of the door only requires safety glazing if it is on the hinge side of an inswing door. (CRC R308.4.2).
 - Glazing where the exposed area is greater than 9sq.ft, bottom is less than 18 in. and at least 36 in. above the floor, and adjacent to a walking surface
 - Within 60in. of the bottom tread of a stairway and less than 36in. above the landing
 - Glazing in guards and railings
 - Glazing adjacent to stairways, landings, and ramps within 36in. horizontally of the walking surface less than 36in. above the walking surface
- Provide landings and a porch light at all exterior doors. Landings are to be minimum 3 ft deep x width of door. Landings at required egress doors may step down a maximum of 7.75 inches when the door does not swing over the landing and 1.5 inches when door swings onto the landing. Other than required exterior exit doors may have a threshold of 7.75 inches maximum; a landing is not required if a stair with two or fewer risers is located on the exterior side and the door does not swing over the stairway. (CRC R311.3-R311.3.2)

FOUNDATIONS & CONCRETE SLABS

Concrete Strength(s): min 1500psf

Rebar Grades: min 40ksi

- Slope drainage 6" within the first 10ft. from the foundation wall. If physical obstructions or lot lines prohibit the 10ft distance, a 2-5 percent slope shall be provided to an approved alternative method of diverting the water away from the foundation. ImperVIOUS surfaces shall also be sloped a minimum of 2 percent for 10ft away from structures to an approved drainage way. (CRC R401.3)
- Footings shall extend at least 12 inches into the undisturbed ground surface. (CRC R403.1.4) Unless erected on solid rock, to protect against frost and freezing, the minimum foundation depth is 18 inches below grade if between 4,000-7,000 foot elevation and 24 inches below grade for 7,000 foot elevation and above. Exception: Interior footings shall be a minimum of 12 inches below grade. (L-V 3.14)
- Stepped footings shall be used when slope of footing bottom is greater than 1 in 10 (V: H).
- Concrete slabs: 3 ½" minimum (CRC R506.1). Slabs under living areas and garages shall be reinforced with wire 6" x 6", 10 gauge x 10 gauge welded mesh or equivalent steel reinforcement and 4" thickness of 3/8" minimum gravel under the concrete slab. Separate from soil with a 6 mil polyethylene vapor retarder with joints lapped not less than 6 inches in living areas. A capillary break shall be installed when a vapor retarder is required.
- Provide 18" X 24" foundation access through the floor or 16"x24" access through a perimeter wall. (CRC R408.4)
- Minimum sill bolting: ½" anchor bolts or approved anchors at 6 ft. o.c. maximum for one-story (CRC R403.1.6). Use anchor bolts at 4 ft. o.c. maximum for three story construction. Embed bolts 7" minimum. The anchor bolts shall be placed in the middle third of the width of the plate. Locate end bolts not less than 7 bolt diameters, nor more than 12" from ends of sill members. In SDC D0 and above: Provide 3"X3"X0.229 plate washers on each bolt at brace or shear wall locations, standard cut washers shall be permitted for anchor bolts not located in brace/shear wall area.

CLEARANCES AND TREATMENT FOR WOOD FRAMING

- Weather exposed glu-lam, beams and posts shall be pressure treated or shall be wood of natural resistance to decay (CRC R317.1.3 & 5)
- Columns exposed to the weather or in basements when supported on concrete pier or metal pedestals shall be pressure treated or natural resistance to decay unless the pier/pedestals project 1" above concrete or 6" above earth and the earth is covered by an approved impervious moisture barrier. (CRC R317.1.4 exc. 1)
- Columns in enclosed crawl spaces or unexcavated areas located within the periphery of the building shall be pressure treated or natural resistance to decay unless the column is supported by a concrete pier or metal pedestal of a height 8" or more and the earth is covered by an impervious moisture barrier. (CRC R317.1.4 exc. 2)
- Deck posts supported by concrete piers or metal pedestals projecting not less than 1" above a concrete floor or 6" above exposed earth. (CRC R317.1.4 exc. 3)

WALLS

- Positive post to beam connection shall be provided to ensure against uplift and lateral displacement. (CRC R502.9 & CBC 2304.9.7)
- All fasteners used for attachment of siding & into pressure treated lumber shall be of a corrosion resistant type (CRC R317.3).
- Fire-block in concealed spaces of stud walls/partitions, vertically at ceiling/floor levels, & horizontally at 10ft. intervals. Fire-block at soffits, drop ceilings/similar locations & in concealed spaces at the top/bottom of stair stringers. (CRC R302.11)
- Provide approved building paper under the building siding and approved flashing at exterior openings (CRC R703.2). Specify a minimum of 2 layers of Grade D paper under stucco and 2 layers of 15lb felt (or equivalent) under stone veneer.
- Stucco shall have a minimum clearance to earth of 4 inches and 2 inches to paved surfaces with an approved weep screed. (CRC R703.7.2.1) Masonry stone veneer shall be flashed beneath the first course of masonry and provided with weep holes immediately above the flashing. (CRC R703.8.5 and R703.8.6)

ROOF

- Provide a minimum 22" x 30" access opening to attic (CRC R807); may be required to be 30"x30" to remove the largest piece of mechanical equipment per the California Mechanical Code.
- Roof drains/gutters required to be installed per the California Plumbing Code with leaf/debris protection also installed.
- All roofing shall be tested/listed Class A minimum.
- Asphalt shingles with sloped roofs 2/12 to 4/12 shall have two layers of underlayment applied per CRC R905.2.2.

GARAGE AND CARPORT

- Garage shall be separated from the dwelling unit & attic area by ½ inch gypsum board applied to the garage side. Garage beneath habitable rooms shall be separated by not less than 5/8" type X gypsum board. Structure supporting floor/ceiling assemblies used for required separations shall have ½" gypsum board installed minimum. Door openings from the garage to the dwelling shall be solid wood/steel doors or non-eycomb steel doors not less than 1 3/8" thick or a 20 minute rated fire door. Doors shall be self-closing & self-latching. No openings directly into a sleeping room from the garage. When the dwelling and garage has fire sprinklers installed per R309.6 and R313, doors into the dwelling unit from the garage only need to be self-closing and self-latching. (CRC R302.5.1 & T-R302.6) (Carports open on two or more sides and no enclosed areas above do not require a separation)
- Ducts penetrating the garage to dwelling separation shall be a minimum of 26 gauge with no openings into the garage. (CRC R302.5.2)
- Penetrations through the garage to dwelling separation wall (other than ducts as listed above) shall be fire-blocked per CRC Section R302.11, Item #4.
- Garage and carport floor surfaces shall be non-combustible material and slope to drain towards the garage door opening. (CRC R309.1)
- Appliances and receptacles installed in garage generating a glow, spark or flame shall be located 18" above floor unless it is listed as flammable vapor ignition resistant. Provide protective post or other impact barrier from vehicles (CMC 308.0).

STAIRWAYS & RAMPS

- Exterior stair stringers must be naturally resistant to decay or pressure treated. (CRC R317.1)
- Rise shall be maximum 7.75"; Run shall be 10" minimum; headroom 6'-8" minimum; width 36" minimum, 31.5" between a handrail on one side and 27" with handrails on two sides. Variation between riser heights 3/8" maximum. A nosing not less than .75 inches but not more than 1.25 inches shall be provided on stairways with solid risers where the tread depth is less than 11 inches. The leading edge of treads shall project not more than 1.25 inches beyond the tread below. Open risers are permitted, provided the opening between the treads does not permit the passage of a 4" sphere. (Openings are not limited when the stair has a rise of 30" or less). (CRC R311.7)
- Stairways with 4 or more risers shall have a handrail on one side 34" to 38" above the tread nosing. Circular handrails shall have an outside diameter of 1.25"-2"; if not circular, it shall have a perimeter dimension of 4"-6.25" with a maximum cross sectional dimension of 2.25". See R311.7.8.3 item# 2 for type II handrails with a parameter over 6.25". A minimum clearance of 1.5" shall be maintained from the wall or other surface. Handrails shall be returned, terminate in newel posts, or safety terminals. (CRC R311.7.8.2)
- Guards shall be 42" minimum height (unless acting as a handrail/guard for a stairway; the guard height may be 34"-38" in height), with openings less than 4" inches clear (guards on the open sides of stairs may have 4 3/8" openings). (CRC R312)
- Provide landings at the top/bottom of the stairway the width of the stairway. The depth of the landing shall be 36" minimum. (see CRC R311.7.6 for exceptions).
- Usable spaces underneath enclosed/unenclosed stairways shall be protected by a minimum of ½" gypsum board. (CRC R302.7)
- Ramps serving the egress door shall have a slope of not more than 1 unit vertical in 12 units horizontal (8.3-percent slope). All other ramps shall have a maximum slope of 1 unit vertical in 8 units horizontal (12.5-percent slope). Exception: Where it is technically infeasible to comply because of site constraints, ramps shall have a slope of not more than 1 unit vertical in 8 units horizontal (12.5-percent slope) (CRC R311.8.1). Provide 3X3" landings at the top and bottom of ramps, where doors open onto ramps, and where ramps change directions. (CRC R311.8)

DECKS

- Guards are required if deck or floor is over 30" above grade, minimum 42" high, with openings less than 4" (CRC R312). Guardrails shall be designed and detailed for lateral forces according to CRC Table 301.5.
- Provide deck lateral load connections at each end of the deck and at deck intersections per CRC R507.2.4. Connectors shall have a minimum allowable stress design capacity of 1,500lbs and install with 24" of the end of the deck. 750lb rated devices are allowed (DITTTZ as example) if located evenly at 4 points along the deck.
- Posts/columns shall be retrained at the bottom end to prevent lateral displacement; clearly show approved post bases, straps, etc to achieve this per CRC R407.3
- Hardware and fasteners to be hot-dipped galvanized, stainless steel, silicon bronze or copper. (CRC R317.3)

ELECTRICAL

- No electrical panels shall be in closets or bathrooms. Maintain a clearance of 36" inches in front of panels, 30" wide or width of equipment and 6'-6" high for headroom (CRC 110.26).
- A concrete-encased electrode (ufer) consisting of 20' of rebar or #4 copper wire placed in the bottom of a footing is required for all new construction. (CEC 250.52(A) (3) Bond all metal gas and water pipes to ground. All ground clamps shall be accessible and of an approved type. (CEC 250.104)
- All 15/20 ampere receptacles installed per CEC 210.52 shall be listed tamper-resistant receptacles. (CEC 406.12)
- All branch circuits supplying 15/20 ampere outlets in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, kitchens, laundry room or similar rooms/areas shall be protected by a listed combination type arc-fault circuit interrupter. (CEC 210.12)
- Provide a minimum of one 20A circuit to be used for the laundry receptacle. (CEC 210.11(c)(2)) Provide a minimum of one 20A circuit for bathroom receptacle outlets. (CEC 210.11(C)(3))
- Provide at least 1 outlet in basements, garages, laundry rooms, decks, balconies, porches and within 3' of the outside of each bathroom basin. (CEC 210.52 (D), (F) & (G))
- Furnaces installed in attics and crawl spaces shall have an access platform (catwalk in attics), light switch and receptacle in the space. Provide a service receptacle for the furnace. (CEC 210.63)
- All dwellings must have one exterior outlet at the front and the back of the dwelling. (CEC 210.52(E))
- Garage receptacles shall not serve outlets outside the garage. A minimum of 1 receptacle shall be provided for each car space. (210.52(G)(1))

⚡ A 15/20 amp receptacle shall be installed within 8ft of electrical service equipment.(CEC 210.64)

⚡ Kitchens, dining rooms, pantries, breakfast nooks, and similar areas must have a minimum of two 20A circuits. Kitchen, pantry, breakfast nooks, dining rooms, and similar areas counter outlets must be installed in every counter space 12" inches or wider, not greater than 4' o.c., within 24" inches of the end of any counter space and not higher than 20" above counter. (CEC 210.52 (C)) Island counter spaces shall have at least 1 receptacle outlet unless a range top or sink is installed than 2 receptacles may be required. 1 receptacle is required for peninsula counter spaces. Receptacles shall be located behind kitchen sinks if the counter area depth behind the sink is more than 12" for straight counters and 18" for corner installations. (CEC Fig-ure 210.52(C)(1))

12. Receptacles shall be installed at 12' o.c. maximum in walls starting at 6' maximum from the wall end. Walls longer than two feet shall have a receptacle. Hallway walls longer than 10 ft shall have a receptacle in hallways. (CEC 210.52(A))

13. Receptacles shall not be installed within or directly over a bathtub or shower stall.(CEC 406.9(C) Light pendants, ceiling fans, lighting tracks, etc shall not be located within 3ft horizontally and 8ft vertically above a shower and/or bathtub threshold.(CEC 410.10(D))

⚡ All lighting/fan fixtures located in wet or damp locations shall be rated for the appli-cation. (CEC 410.10)

⚡ GFCI outlets are required: for all kitchen receptacles that are designed to serve counter top surfaces, dishwashers, bathrooms, in under door spaces or below grade level, in exterior outlets, within 6' of a laundry/utility/wet bar sinks, laundry areas, and in all garage outlets including outlets dedicated to a single device or garage door opener (CEC 210.8).

16. Carbon-monoxide alarms shall be installed in dwelling units with fuel-burning appliances or with attached garages (CRC R315):

- Outside of each separate sleeping area in the immediate vicinity of bedrooms
 - On every level of a dwelling unit including basements
 - Alterations, repairs, or additions exceeding 1,000 dollars (May be battery operated)
- Smoke alarms shall be installed (CRC R314):
 - In each room used for sleeping purposes.
 - Outside of each separate sleeping area in the immediate vicinity of bedrooms.
 - In each story, including basements.
 - Shall not be installed within 20ft horizontally of cooking appliances and no closer than 3ft to mechanical registers, ceiling fans and bathroom doors with a bathtub or shower unless this would prevent placement of a smoke detector (314.3(4)).
 - Alterations, repairs, or additions exceeding 1,000 dollars. (May be battery operated)
 - All smoke and carbon-monoxide alarms shall be hardwired with a battery backup (smoke alarms shall have a 10-year-sealed battery). (CRC R314.4 & R315.1.2)
 - All 15/20 ampere receptacles in wet locations shall have in-use (bubble) covers installed. All receptacles in wet locations shall also be listed weather-resistant type. (CEC 406.9(B)(1))

PLUMBING

- Underfloor cleanouts shall not be more than 5 FEET from an underfloor access, access door or trap door. (CPC 707.9)
- ABS piping shall not be exposed to direct sunlight unless protected by water based synthetic latex paints. (CPC 312.13)
- PVC piping shall not be exposed to direct sunlight unless protected by water based synthetic latex paint, .04" thick wrap or otherwise protected from UV degradation. (CPC 312.14)
- The adjacent space next to showers without thresholds shall be considered a "wet location" when using the CRC, CBC, and the CEC. (CPC 408.5)
- Shower compartments, regardless of shape, shall have a minimum finished interior of 1024 square inches (32" by 32") and shall also be capable of encompassing a 30" circle. The required area and dimensions shall be measured at a height equal to the top of the threshold and shall be maintained to a point of not less than 70" above the shower drain outlet. (CPC 408.6) Provide curtain rod or door a minimum of 22" in width (CPC 408.5). Showers and tubs with showers require a non-absorbent surface up to 6' above the floor. (CRC R307.2)
- Water Heaters: Provide pressure relief valve with drain to outside for water heater. (CPC 504.6) Provide seismic strapping in the upper 8 lower third of the water heater or a minimum of 4" above controls. (CPC 507.2) The water heater shall be of an instantaneous type or the following shall be provided (*new construction only*) (CEC 150(n)):
 - A 120V receptacles provided within 3ft
 - A category III or IV vent, or a straight (without bends) Type B vent
 - Condensate drain that is no more than 2 inches higher than the base of the water heater
 - Gas supply line with a minimum 200,000 Btu/hr dedicated capacity for the water heater
- Domestic hot water lines shall be insulated. Insulation shall be the thickness of the pipe diameter up to 2" in size and minimum 2" thickness for pipes larger than 2" in diameter. (CPC 609.11)
- A 3-inch gravity drain shall be provided at the low point of underfloor spaces, installed so as to provide 1/4-inch per foot grade and terminate at an exterior point of the building protected from blockage. The opening shall be screened with a corrosion-resistant wire mesh with mesh openings of 1/4-inch in dimension. Lengths of the gravity drains over 10 feet in length shall be first approved by the Building Official. (L-V 8.9)
- Water heaters located in attics, ceiling assemblies and raised floor assemblies shall show a water-tight corrosion resistant minimum 1 ½" deep pan under the water heater with a minimum ¾ inch drain to the exterior of the building. (CPC 507.5)
- Water closet shall be located in a space not less than 30" in width (15" on each side) and 24" minimum clearance in front. (CPC 402.5)
- The maximum hot water temperature discharging from a bathtub or whirlpool bath-tub filler shall not exceed 120 degrees F. (CPC 418)
- Provide anti-siphon valves on all hose bibs. (CPC 603.5.7)
- Floor drains shall be provided with a trap primer. (CPC 1007)
- Maximum water flow rates. (CGBSC 4.303.1):
- Water Closets: 1.28gpf
- Urinals: .125gpf
- Kitchen Faucets: 1.8gpm @ 60psi
- Lavatory Faucets: 1.2gpm @ 60psi
- Showersheds: 1.8gpm

MECHANICAL

- Wood burning appliances shall be one of the following:
 - A pellet-fueled wood burning heater.
 - A U.S. EPA Phase II Certified wood burning heater.
 - An appliance or fireplace determined to meet the U.S. EPA particulate matter emission standard of less than 7.5 grams per hour for a non-catalytic wood fired appliance or 4.1 grams per hour for a catalytic wood fired appliance and is approved in writing by the APCO.

- All newly installed gas fireplaces shall be direct vent and sealed-combustion type. (CMC 912.2)
- Any installed wood stove or pellet stove shall have a permanent NSPS label certifying emission limits.
- Top chimney must extend a minimum of 2 ft. above any part of the building within 10 ft. (CMC 802.5.4)
- Fireplaces shall have closable metal or glass doors, have combustion air intake drawn from the outside and have a readily accessible flue dampener control. Continuous burning pilot lights are prohibited. (CEC 150.0(e))
- Provide combustion air for all gas fired appliances per CMC Chapter 7.
- Gas vents passing through an insulated assembly shall have a metal insulation shield a minimum 2" above insulation. (509.6.2.7)
- Gas water heater and furnace are not allowed in areas opening into bathrooms, closets or bedrooms unless installed in a closet equipped with a listed gasketed door assembly and a listed self-closing device with all combustion air obtained from the outdoors. (CPC 504)
- Roof top equipment on roofs with over 4/12 slope shall have a level 30"x30" working platform. (CMC 304.2)
- Exhaust openings terminating to the outdoors shall be covered with a corrosion resistant screen ¼"-1/2" in opening size (not required for clothes dryers). (CMC 502.1)
- Vent dryers to outside of building (not to under-floor area). Vent length shall be 14 ft maximum. Shall terminate a minimum of 3' from the property line and any opening into the building. (CMC 504.4.2)
- Environmental Air Ducts shall not terminate less than 3' to a property line, 10' to a forced air inlet, 3' to openings into the building and shall not discharge on to a public way. (CMC 502.2.1)
- Provide minimum 100 square inches make-up air for clothes dryers installed in closets. (CMC 504.4.1(1))
- Heating system is required to maintain 68 degrees at 3 ft. above floor level and 2ft

from exterior walls in all habitable rooms. (CRC R303.9)

ENERGY CODE

- All ducts in conditioned spaces must include R-4.2 insulation. (California Energy Code 150.1(c)9)
- Insulate the first 5' of hot/cold water lines, all lines ¾ inch in diameter or larger, all recirculation piping, piping to storage tanks and all hot water pipes to kitchen fixtures from the water heater. (California Energy Code 150(j)(2))
- Isolation water valves required for instantaneous water heaters 6.8kBTU/hr and above. Valves shall be installed on both cold and hot water lines. Each valve will need a hose bib or other fitting allowing for flushing the water heater when the valves are closed. (CEC 110.3(c)7)
- All luminaires must be high efficacy (California Energy Code 150.0(k)1A)
- The maximum number of blank electrical boxes installed more than 5 feet above the floor is limited to the number of bedrooms. The blank boxes shall be served by a dimmer, vacancy sensor or fan speed control. (California Energy Code 150.0(k)1B)
- Luminaires recessed in insulated ceilings must meet these requirements (California Energy Code 150.0(k)1C):
 - They must be rated for direct insulation contact (IC).
 - They must be certified as airtight (AT) construction.
 - They must have a sealed gasket or caulking between the housing and ceiling to prevent flow of heated or cooled air out of living areas and into the ceiling cavity.
 - They may not contain a screw base sockets
 - They shall contain a JAB compliant light source
- In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces shall be controlled by a vacancy sensor. (California Energy Code 150.0(k)2)
- Joint Appendix A (JAB) certified lamps shall be considered high efficacy. JAB compliant light sources shall be controlled by a vacancy sensor or dimmer. (Exception: <70sf closets and hallway) (California Energy Code 150.0(k)2K)
- Under-cabinet lighting shall be switched separately from other lighting systems. (California Energy Code 150.0(k)2L)
- All exterior lighting shall be high efficacy, be controlled by a manual on/off switch and have one of the following controls (the manual switch shall not override the automatic control device): (California Energy Code 150.0(k)3A)
- Photo-control and motion sensor
- Photo-control and automatic time switch control
- Astronomical time clock control turning lights off during the day
- All high efficacy light fixtures shall be certified as "high-efficacy" light fixtures by the California Energy Commission.
- Contractor shall provide the homeowner with a luminaire schedule giving the lamps used in the luminaires installed. (California Energy Code 10-103(b))
- Project shall meet the minimum ventilation and acceptable indoor air quality requirements per ASHRAE Standard 62.2. Window operation is not a permissible method of providing the whole building ventilation airflow required. This is subject to MERS testing. The following label must be attached to the fan switch: "To maintain minimum levels of outside air ventilation required for good health, the fan control should be on at all times when the building is occupied, unless there is severe outdoor air contamination." (California Energy Code 150.0(o))

WILDLAND URBAN INTERFACE (WUI)

New Buildings Constructed After January 1, 2008

- Exterior wall coverings shall be noncombustible, ignition resistant, heavy timber, log wall or fire resistive construction. (CRC R337.7)
- Exterior wall coverings shall extend from the foundation to the roof and terminate at 2 inch nominal solid blocking between rafters and overhangs. (CRC R337.7.3.1)
- Open/enclosed roof eaves and soffits, exterior porch ceilings, floor projections, under-floor areas and undersides of appendages to comply with ignition resistant construction requirements. (CRC R337.5-9) (show compliance on the plans).
- Spaces created between roof coverings and roof decking shall be fire stopped by approved materials or have one layer of minimum 72lb mineral surfaced non-perforated cap sheet complying with ASTM D 3909. (CRC R337.5.2)
- Valley flashing shall be not less than 26 gauge and installed over not less than one layer of minimum 72lb mineral surfaced non-perforated cap sheet complying with ASTM D 3909 and at least 36 inches wide running the full length. (CRC R337.5.3)
- Attic gable and eaves above 12ft shall be provided with fully covered metal wire mesh, vents, or other materials that have a minimum 1/16 inch and maximum 1/8 inch openings, non-combustible and corrosion resistant. All other eave vents and foundation vents shall be listed/approved to resist the intrusion of flame and burning embers. (CRC R337.6)
- Exterior glazing shall have a minimum of one-tempered pane, glass block, have a fire resistive rating of 20 minutes or be tested to meet performance requirements of SFM Standard 12-7A-2. (CRC R337.8.2)
- Exterior doors including garage doors shall be noncombustible, ignition resistant material, minimum 1 3/8 inch solid core, minimum 20 minute fire resistive rating or shall be tested to meet the performance requirements of SFM Standard 12-7A-1. (CRC R337.8.3)
- The walking surface material of decks, porches, balconies and stairs within 10ft of grade level shall be ignition resistant material, exterior fire retardant treated wood or noncombustible material. (CRC R337.9)

GREEN BUILDING

- 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, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site (CGBSC 4.106.2):
 - Retention basins of sufficient size shall be utilized to retain storm water on site
 - Where storm water is conveyed to a public drainage system, collection point, gutter, or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.
- All new residential construction with attached private garages shall have the following for electric vehicle (EV) charging stations (CGBSC 4.106.4):
 - Install a minimum 1-inch conduit capable of supplying a 208/240V branch circuit to a suitable box location for EV charging. The other end shall terminate to the main service and/or subpanel.
 - The main panel and/or subpanel shall be of sufficient size to install a 40-ampere dedicated branch circuit. The dedicated overcurrent protection space shall be labeled "EV CAPABLE".
- Multiple shower heads serving a single shower shall have a combined flow rate of 1.8gpm or the shower shall be designed to allow only one shower outlet to be in operation at a time. (CGBSC 4.303.1.3.2)
- Residential projects with an aggregate landscape area equal to or greater than 500 square feet shall comply with either a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. Automatic irrigation system controllers installed at time of final inspection shall have weather or soil based controllers and/or weather based controllers with rain sensors. Soil moisture based controllers are not required to have rain sensor input. (CGBSC 4.304)
- Recycle and/or reuse a minimum of **65 percent** of nonhazardous construction and demolition waste. (CGBSC 4.408.2)
- At time of final inspection, a building operation and maintenance manual, compact disc, etc shall be provided containing the following: (CGBSC 4.410)
 - Directions that manual shall remain on site for the life of the building
 - Operation and maintenance instructions for equipment, appliances, roof/yard drain-

age, irrigation systems, etc

- Information from local utility, water and waste recovery providers
 - Public transportation and carpool options
 - Material regarding importance of keeping humidity levels between 30-60 percent
 - Information regarding routine maintenance procedures
 - State solar energy incentive program information
 - A copy of any required special inspection verifications that were required (if any)
- The project shall meet minimum pollutant control requirements for adhesives, seal-ants, caulks, paints, carpet, resilient flooring systems, etc. (CGBSC 4.504)
 - Duct openings related to HVAC systems shall be covered with tape, plastic, sheet metal or other methods to reduce the amount of water, dust and debris which may enter the system. (CGBSC 4.504.1)

COMPLETE ONE OF THE BELOW WASTE MANAGEMENT FORMS:

Construction Waste Management Worksheet (Weight Method) - CW 3

Project Name:	Date:	Page of			
Project Location:	Completed By:				
Project Manager:	Signature:				
Waste Hauler:	Signature:				
Waste Material Type	A	B	C	D	Notes:
	Recycled	Reused	Diverted	Non-Recycled (Disposed)	
Asphalt	+	=			
Asphalt Shingles	+	=			
Brick (broken)	+	=			
Cardboard	+	=			
Carpet/Carpet Pad	+	=			
Concrete	+	=			
Gypsum Board (Drywall)	+	=			
Masonry	+	=			
Metals	+	=			
Pallets	+	=			
Plastic	+	=			
Wood (engineered)	+	=			
Wood (solid sawn)	+	=			
Office Waste	+	=			
Other	+	=			
Other	+	=			
Other	+	=			
Total:	+	=			

Step 1 - Insert weight totals into Columns A, B, and D where appropriate.

Step 2 - Add Column A to Column B and insert total into Column C for total diverted weight.

Step 3 - Add each column down and enter totals in the boxes provided.

If Column C is larger than Column D (on the summary sheet), compliance with 65 percent waste reduction requirement is achieved.

If multiple worksheets are used, transfer column totals from each worksheet to the summary sheet.

For additional instructions and information, please see reverse.

Construction Waste Management Worksheet (Volume Method) - CW 2

Project Name:	Date:	Page of			
Project Location:	Completed By:				
Project Manager:	Signature:				
Waste Hauler:	Signature:				
Waste Material Type	A	B	C	D	Notes:
	Recycled	Reused	Diverted	Non-Recycled (Disposed)	
Asphalt	+	=			
Asphalt Shingles	+	=			
Brick (broken)	+	=			
Cardboard	+	=			
Carpet/Carpet Pad	+	=			
Concrete	+	=			
Gypsum Board (Drywall)	+	=			
Masonry	+	=			
Metals	+	=			
Pallets	+	=			
Plastic	+	=			
Wood (engineered)	+	=			
Wood (solid sawn)	+	=			
Office Waste	+	=			
Other	+	=			
Other	+	=			
Other	+	=			
Total:	+				