



TOWN OF PARADISE

5555 SKYWAY • PARADISE, CALIFORNIA 95969-4931

TELEPHONE (530) 872-6291 FAX (530) 877-5059

www.townofparadise.com

2010 CalGreen Residential Mandatory Measures

❖ **Planning and Design**

Site Development

Preservation and use of available natural resources shall be accomplished through evaluation and careful planning to minimize negative effects on the site and adjacent areas.

4.106.2 A plan is developed and implemented to manage storm water drainage during construction.

4.106.3 The site shall be planned and developed to keep surface water away from buildings. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows.

❖ **Energy Efficiency**

4.201.1 It is the intent of this code to encourage buildings to achieve exemplary performance in the area of energy efficiency.

❖ **Water Efficiency Conservation**

Indoor Water Use

4.303.1 Indoor water use shall be reduced at least 20 percent using one of the following methods:

1. Water saving fixtures or flow restrictors shall be used.
2. A 20 percent reduction in baseline water use shall be demonstrated.

4.303.2 When using the calculation method specified in Section 4.303.1, multiple showerheads shall not exceed maximum flow rates.

4.303.3 Plumbing fixtures (water closets and urinals) and fitting (faucets and showerheads) shall comply with specified performance requirements.

Outdoor Water Use

4.304.1 Automatic irrigation system controllers for landscaping installed at the time of final inspection shall be Weather-based .

❖ **Material Conservation and Resource Efficiency**

Enhanced Durability and Reduced Maintenance

4.406.1 Joints and openings. Annular spaces around pipes, electric cables, conduits or other openings in 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 enforcing agency.

Construction Waste reduction, Disposal and Recycling

4.408.1 A minimum of 50 percent of the nonhazardous construction and demolition debris generated at the site is diverted to recycle or salvage.

4.408.2 A construction waste management plan shall be submitted for approval which includes the following:

1. Identifies the materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.
2. Specifies if materials will be sorted on-site or mixed for transportation to a diversion facility.
3. Identifies the diversion facility where the material collected will be taken.
4. Identifies construction methods employed to reduce the amount of waste generated.
5. Specifies that the amount of materials diverted shall be calculated by weight or volume, but not by both.

Building Maintenance and Operation

4.410.1 At the time of final inspection, a maintenance manual which includes all of the following shall be placed in the building:

1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
2. Operation and maintenance instructions for the following:
 - a) Equipment and appliances.
 - b) Roof and yard drainage.
 - c) Space and conditioning systems.
 - d) Landscape irrigation systems.
 - e) Water reuse systems.
3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations.
4. Public transportation and/or carpool options available in the area.
5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
6. Information about water-conserving landscape and irrigation design and controllers which conserve water.
7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
9. Information about state solar energy and incentive programs available.
10. A copy of all special inspection verifications required by the enforcing agency or this code.

❖ **Environmental Quality**

Fireplaces

4.503.1 Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA Phase II emission limits. **Pollutant Control**

4.504.1 Covering of duct openings and protection of mechanical equipment during construction at the time of rough installation or during storage on the construction site and until final startup of the heating and cooling equipment.

4.504.2 Finish material pollutants, adhesives, sealants, caulks, paints and coatings shall comply with statewide VOC standards.

4.504.3 All carpet installed in the building interior shall meet the testing and product requirements of one of the following:

1. Carpet and Rug Institute's Green Label Plus Program.
2. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350).
3. Scientific Certifications Systems Indoor Advantage™ Gold.

4.504.4 Where resilient flooring is installed, at least 50 percent of floor area receiving resilient flooring shall comply with the VOC emission limits.

4.504.5 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.

Interior Moisture Control

4.505.2 Concrete slab foundations required to have a vapor retarder.

4.505.3 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.

Indoor Air Quality and Exhaust

4.506.1 Mechanical exhaust fans which exhaust directly from bathrooms shall be either ENERGY STAR compliant and be ducted to terminate outside the building or functioning as a component of a whole house ventilation system, fans must be controlled by a humidistat which shall be readily accessible.

Environmental Comfort

4.507.1 Whole house exhaust fans shall have insulated louvers or covers which close when the fan is off. Covers or louvers shall have a minimum insulation value of R-4.2.

4.507.2 Heating and air-conditioning systems shall be sized, designed and have their equipment selected using the following methods:

1. The heat loss and heat gain is established according to ACCA Manual J, ASHRAE handbooks or other equivalent design software or methods.
2. Duct systems are sized according to ACCA 29-D Manual D, ASHRAE handbooks or other equivalent design software or methods.
3. Select heating and cooling equipment according to ACCA 36-S Manual S or other equivalent design software or methods.



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MINIMUM EROSION AND SEDIMENT CONTROLS FOR PROJECTS DISTURBING LESS THAN ONE ACRE

The BMP's (Best Management Practices) listed below must be in place during the rainy season (October 15 through April 15) and may be required at other times based on weather and site conditions throughout the year. The BMP's listed are minimum requirements and additional BMP's could be required based on site conditions.

- Stabilized entry: Provide minimum 3" to 6" fractured rock 50' long x 15' wide by 6" deep over construction grade fabric.
- All soils tracked onto paved roadways must be cleaned up on a daily basis. When streets are wet or during a rain event there shall be no tracking of soils onto the street.
- Wattles installed properly behind curb or sidewalks.
- Rock bags (minimum 2 per side) at all drain inlet locations within 150' of the project site.
- Internal filters placed inside each drain inlet.
- Trash bars across the back of all drain inlets.
- Stabilize all disturbed soils in the front yard areas within 15' of the back of curb or sidewalk. (Straw or erosion blankets may be used for this application)
- Stabilize all slopes where erosion could occur and cause silt run off. (Straw, visqueen or erosion blankets may be used for this application)
- All paint, fuel, construction products etc. shall be stored in a covered location away from sidewalks and storm drain inlets.
- Portable chemical toilets if provided on the site must be kept off of streets and sidewalks and at least 50' from the nearest storm drain inlet.
- All trash must be collected and stored properly. Do not let items such as drywall mud boxes, paint buckets, cleaning material containers etc. come in contact with any rainfall or storm water runoff.
- Provide a designated area for concrete washout. Hay bales lined with visqueen may be used for this application. Rollaway bins may also be used. All concrete washout systems shall be placed off of the paved streets.
- After installation of the above items is complete a maintenance program needs to be developed to insure the continued effectiveness of your BMP's.

Construction & Demolition (C&D) Recycling and Salvage Information

General Waste Services:

- Recology Butte Colusa Counties
538-5868, 342-2222
- Waste Management
893-4777
- Northern Recycling & Waste Services
876-3340

Material Recovery Facilities:

- Recology Butte Colusa Counties
2720 S. 5th Ave, Oroville 533-5868

Inert Recycling facilities:

- Neal Road Recycling & Waste Facility
1023 Neal Road
- Knife River Construction Co,
1764 Skyway, Chico, 891-6555
- Granite Construction Co.
4714 Pacific Heights Rd, Oroville,
538-7616

Fixtures and building Materials:

- Re-Store (Habitat for Humanity)
220 Meyers, Chico, 895-1271

Scrap Metal:

- Aldred Scrap/Steel Mill Recyclers
786 Oro-Chico Hwy, Durham, 342-4930
- Chico Scrap Metal
766 Oro-Chico Hwy, Durham, 345-1476
- Norcal Recyclers
1855 Kusel Rd, Oroville, 532-0262

Yard/Wood Wastes:

- North Valley Organic recycling
4441 Cohasset Rd., Chico, 624-3529
- Recology Butte Colusa Counties Recycling
Center
2720 S. 5th Ave., Oroville, 533-5868
- Earthworm Soil Factory
Neal Road off Hwy 99, 895-9676

- Town of Paradise Vegetative Waste Facility
Clark Rd. & American Way, Paradise
877-0824

- Old Durham Wood Co.
342-7381

- Neal Road Recycling & Waste Facility
1023 Neal Road

Cardboard:

- Chico Scrap Metal
878 E 20th St, Chico, 343-7166
- Chico Transfer & Recycling
2569 Scott Ave, Chico, 893-0333

- Work Training Center
2300 Fair St, Chico, 343-8641

- Nor-Cal Recyclers
1855 Kusel Rd, Oroville

Other Resources:

- Cal-Max
www.civwmb.ca.gov/CalMAX
- Green Building Information
www.epa.gov/epaoswer/non-hw/debris-new/index.htm
- Butte County Public Works Dept.
Solid Waste & Recycling Division
879-2352
- www.RecycleButte.net

This partial list is for informational purposes only and not an endorsement of any products or services.



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APN: _____ Building Permit # _____

Owner Name: _____

Owner Mailing Address: _____ Owner Phone: () _____

Jobsite Address: _____ Project Sq. Ft. _____ Project Type: Construction Demolition

Jobsite Contact: _____ Company: _____ Jobsite Phone: () _____

Brief description of project: _____

By signing below, I acknowledge that I am responsible for complying with the requirements of California Green Building Standards code related to the recovery of construction and demolition debris and the lack of compliance may result in delays in issuance of building/demolition permit(s), hold on final inspection(s) and/or penalties.

Applicant: _____
 (Owner / Contractor) Signature: _____ Date: _____
 (Circle)

MATERIAL (1)	Reuse	Recycle (2)	Dispose	FACILITIES/SERVICE PROVIDERS TO BE USED (3)
Inert Material (Concrete, asphalt)				
Lumber				
Plan/Tree Debris				
Dry Wall				
Metal				
Cardboard				
Other: _____				
Other: _____				

Recovery Plan approved: _____ Date: _____
 (Building Division)

Please refer to <http://paradiserecycles.com/> for local recycling service

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APN: _____ Building Permit # _____

Owner Name: _____ Owner Phone: () _____

Jobsite Address: _____ Project Type: Construction Demolition

Jobsite Contact: _____ Company: _____ Jobsite Phone: () _____

MATERIAL	Reuse Tonnage	Recycle Tonnage	Disposal Tonnage	ACTUAL FACILITIES/SERVICE PROVIDERS USED
Inert Material (Concrete, asphalt)				
Lumber				
Plant/Tree Debris				
Dry Wall				
Metal				
Cardboard				
Other: _____				
Other: _____				

Total tons of material disposed of (not recycled or reused) _____

Total tons of material not disposed (either recycled or reused) _____

Percent recycled/reused _____ %

Please sign indicating that the above information is true and correct to the best of your knowledge:

Applicant: _____ Date: _____
 (Owner or Contractor): _____
 Circle which

Final Report returned with comments: _____ (Initial) Date: _____

Final Report approved: (Building Inspector) _____ Date: _____

Attach copies of weight receipts, gate tags, or other verifying information for all materials that were reused, recycled or disposed.

VOC COMPLIANCE CERTIFICATION

ADHESIVE (NONE <input type="checkbox"/>)	MANUFACTURER	CALGreen LIMIT ¹	ACTUAL VOCs

SEALANT (NONE <input type="checkbox"/>)	MANUFACTURER	CALGreen LIMIT ¹	ACTUAL VOCs

ARCHITECTURAL COATINGS (NONE <input type="checkbox"/>)	MANUFACTURER	CALGreen LIMIT ¹	ACTUAL VOCs

FORMALDEHYDE COMPLIANCE CERTIFICATION

PRODUCT (NONE <input type="checkbox"/>)	MANUFACTURER	CURRENT LIMIT	ACTUAL
Hardwood plywood veneer core		0.05	
Hardwood plywood composite core		0.08	
Particleboard		0.09	
Medium density fiberboard		0.11	
Thin medium density fiberboard		0.21	

All Carpet installed in the building interior meets the testing and product requirements of the following (check one)

- Carpet and Rug Institute's Green Label
- California Department of Public Health Standard Practice for the testing of VOCs
- NSF/ANSI 140 at the Gold Level
- Scientific Certifications Systems Indoor Advantage™ Gold
- No carpet installed on this project

I certify that the information provided on this form is accurate and that the materials used on this project comply with Section 4.504 (Residential) or 5.504 (Non-Residential) of the 2010 California Green Building Standards Code.

Print name

Signature

Date