


**Building Industry Institute**

Form CGB-WS

**Plan Worksheet**

Use a separate worksheet for each plan in your subdivision. The California Green Builder Energy, Air, Waste and Water Protocols available on the Building Industry Institute website ([www.cagreenbuilder.org](http://www.cagreenbuilder.org)) provide detailed explanations for these calculations.

Date of Application: \_\_\_\_\_

Application Number \_\_\_\_\_ (BII Use Only)

Builder Name \_\_\_\_\_

Subdivision/Project Name \_\_\_\_\_

**Plan Information**

Plan Name \_\_\_\_\_

Number of Stories \_\_\_\_\_

Conditioned Floor Area (CFA) \_\_\_\_\_ square feet

Number of lots in project (this plan only) \_\_\_\_\_

**CALCULATIONS**
**ENERGY EFFICIENCY REQUIREMENTS**
**Plan Worst Case**

	Standard Design	Proposed Design	kWh Savings	Therm Savings
Space Heating	_____ kBtu/sf-yr	_____ kBtu/sf-yr	_____	_____
Space Cooling	_____ kBtu/sf-yr	_____ kBtu/sf-yr	_____	_____
Water Heating	_____ kBtu/sf-yr	_____ kBtu/sf-yr	_____	_____
<b>Totals:</b>			_____	_____

**ADVANCED VENTILATION**

ACCA J	Sensible Load _____	Btu/hr
	Latent Load _____	Btu/hr
Installed Equipment	_____	Size in tons

## WASTE MANAGEMENT

### PART 1

**Floor Construction Type (select one)** Slab on Grade  Raised Floor   
**Roof Material Type (select one)** Tile  Asphalt Shingle  Other  (Specify) \_\_\_\_\_  
**Roof Construction Type (select one)** Trusses  Dimensional Lumber  Combination   
**Framing (select one)** Wood  Steel   
**Exterior Siding (select all that apply)** Stucco  Wood  Masonry/Stone   
 Manufactured Wood  Fiber Cement

---

### PART 2

#### Estimated Waste Calculations (NAHB Typical Data Method)

**Correction Factor**  $CFA_{(Plan)} \div 2000sf =$  \_\_\_\_\_

#### NAHB Std. Material/Values X Correction Factor = Estimate

<b>Wood</b>	.800 × CorrectionFactor = _____	tons of wood
<b>Drywall</b>	.700 × CorrectionFactor = _____	tons of drywall
<b>Cardboard</b>	.300 × CorrectionFactor = _____	tons of cardboard
<b>Concrete</b>	.300 × CorrectionFactor = _____	tons of concrete
<b>Metal</b>	.075 × CorrectionFactor = _____	tons of metal
	_____	<b>Tons of Total Estimated Waste</b>

---

### PART 3

#### Landfill Diversion Calculations

##### Tons of Wood by Method Used

Product Recycler	% Material Recycled _____	$Tons\ of\ wood \times \% \ Recycled =$ _____
Haul to Sorter/Diverter	% Material Diverted _____	$Tons\ of\ wood \times \% \ Diverted =$ _____

##### Tons of Drywall by Method Used

Product Recycler	% Material Recycled _____	$Tons\ of\ drywall \times \% \ Recycled =$ _____
Haul to Sorter/Diverter	% Material Diverted _____	$Tons\ of\ drywall \times \% \ Diverted =$ _____

##### Tons of Cardboard by Method Used

Product Recycler	% Material Recycled _____	$Tons\ of\ cardboard \times \% \ Recycled =$ _____
Haul to Sorter/Diverter	% Material Diverted _____	$Tons\ of\ cardboard \times \% \ Diverted =$ _____

##### Tons of Concrete by Method Used

Product Recycler	% Material Recycled _____	$Tons\ of\ concrete \times \% \ Recycled =$ _____
Re-Use on Jobsite	% Material Re-Using _____	$Tons\ of\ concrete \times \% \ Diverted =$ _____

##### Tons of Metal by Method Used

Product Recycler	% Material Recycled _____	$Tons\ of\ metal \times \% \ Recycled =$ _____
------------------	---------------------------	------------------------------------------------

**Tons of Total Recycled/Diverted Waste** \_\_\_\_\_

---

**WASTE MANAGEMENT (cont.)****PART 4****Alternative Waste Management Methods/Materials****Dimensional Planning**

24" OC interior walls      Roof Layout      Steel Framing      Floor Layout      Room Layout

**Modular/preconstructed elements**

Roof Trusses      Floor Trusses      Sheer Structures      Pre-framed Walls

**Engineered wood products**

Wood I-Beams      Oriented Strand Board      GluLam/MicroLam Beams

**Re-manufactured wood products**

Finger Joint Studs      Med or High Density Fiber Board      Finger Joint Millwork

**WATER CONSERVATION**

Feature			Total Savings (gal)
<b>Required:</b>	Weather Based Irrigation Controller (WBIC)	ft <sup>2</sup>	
<b>Options:</b>	Drip	ft <sup>2</sup>	
	Native Plants +	ft <sup>2</sup>	
	Reduced Turf (< 75%)	ft <sup>2</sup>	
	Clothes Washer water factor ≤ 6.0		
	Toilets 1.28 gal/flush	# of toilets:	
	Recirculation DHW Piping w/ timer/temp demand		
	DHW Parallel Piping		
	No Recirc or Parallel		
		<b>Total</b>	gal