



HOW “GREEN” IS YOUR HOUSE?

USE THE ATTACHED GREEN POINTS CHECKLIST TO RATE YOUR PROJECT

The attached Checklist was developed by “Build It Green”, a non-profit membership organization whose mission is to promote healthy, energy efficient buildings in California. This check list has been adopted by SLO Green Build as part of their voluntary residential “Green Build” program.

Building “Green” involves all aspects of construction of a home from the ground up. Some common items that can be easily incorporated into the construction of a home are:

SITE:

- Save top soils to be used in landscaping at end of construction.
- Use water efficient landscaping methods and native drought-tolerant plants. Minimize turf areas. Plant shade trees.

BUILDING:

- Use a higher percentage of fly ash in concrete.
- Use engineered lumber such as wood “I” joists.
- Install OSB roof sheeting that has a Radiant Barrier.
- Insulate all cold and hot water lines throughout the house.

INTERIOR:

- Use paints, finishes, coatings with low VOC.
- Use 5/8” drywall in all walls to increase thermal mass.
- Use solar tubes to provide natural light to interior rooms.

EXTERIOR:

- Use tight fitting weather strip at all exterior doors.
- Install overhangs at south facing windows for shade in the summer.
- Use roof tile or shingles with Solar Reflectance Index of 29 or higher.

There are many more simple construction methods that can make your building greener and reduce maintenance costs. Go to www.slogreenbuild.org, www.builditgreen.org, www.usgbc.org, for additional ideas.

This checklist is being provided as a learning tool and is not intended to be used as an inspection requirement.



Single Family GreenPoint Checklist

date: _____



Build It Green
Smart Solutions From The Ground Up

The GreenPoint Checklist is based on the various green features incorporated into the home and is the basis for the GreenPoint Rated program. A home can be considered green if it fulfills the prerequisites, earns at least 50 points, and meets the minimum points per category: Energy (30), Indoor Air Quality/Health (5), Resources (6), and Water (9). Please contact Build It Green for a list of qualified GreenPoint Raters if you are interested in pursuing third-party verification.

The green building practices listed below are described in the New Home Construction Green Building Guidelines, available at www.builditgreen.org.



ENTER PROJECT NAME	Points Achieved	Community	Energy	IAQ/Health	Resources	Water
A. SITE		Points Available Per Measure				
1. Protect Native Soil and Minimize Disruption of Existing Plants & Trees						
<input type="checkbox"/> a. Protect Native Topsoil from Erosion and Reuse after Construction	0	1				1
<input type="checkbox"/> b. Limit and Delineate Construction Footprint for Maximum Protection	0					1
<input type="checkbox"/> 2. Deconstruct Instead of Demolishing Existing Buildings On Site	0				3	
3. Recycle Job Site Construction Waste (Including Green Waste)						
<input type="checkbox"/> a. Minimum 50% Waste Diversion by Weight (Recycling or Reuse) - <i>Required</i>	0				R	
<input type="checkbox"/> b. Minimum 65% Diversion by Weight (Recycling or Reuse)	0				2	
<input type="checkbox"/> c. Minimum 80% Diversion by Weight (Recycling or Reuse)	0				2	
4. Use Recycled Content Aggregate (Minimum 25%)						
<input type="checkbox"/> a. Walkway and Driveway	0				1	
<input type="checkbox"/> b. Roadway Base	0				1	
Total Points Available in Site = 12		0				
B. FOUNDATION		Points Available Per Measure				
1. Replace Portland Cement in Concrete with Recycled Flyash or Slag						
<input type="checkbox"/> a. Minimum 20% Flyash or Slag	0				1	
<input type="checkbox"/> b. Minimum 25% Flyash or Slag	0				1	
<input type="checkbox"/> 2. Use Frost-Protected Shallow Foundation in Cold Areas (C.E.C. Climate Zone 16)	0				3	
<input type="checkbox"/> 3. Use Radon Resistant Construction (In At-Risk Locations Only)	0			1		
4. Design and Build Structural Pest Controls						
<input type="checkbox"/> a. Install Termite Shields & Separate All Exterior Wood-to-Concrete Connections by Metal or Plastic Fasteners/Dividers	0				1	
<input type="checkbox"/> b. All New Plants Have Trunk, Base, or Stem Located At Least 36 Inches from Foundation	0				1	
Total Points Available in Foundation = 8		0				
C. LANDSCAPING		Points Available Per Measure				
1. Construct Resource-Efficient Landscapes						
<input type="checkbox"/> a. No Invasive Species Listed by Cal-IPC Are Planted	0					1
<input type="checkbox"/> b. No Plant Species Will Require Hedging	0				1	
<input type="checkbox"/> c. 75% of Plants Are California Natives or Mediterranean Species	0					3
<input type="checkbox"/> 2. Use Fire-Safe Landscaping Techniques	0	1				
3. Minimize Turf Areas in Landscape Installed by Builder						
<input type="checkbox"/> a. All Turf Will Have a Water Requirement Less than or Equal to Tall Fescue	0					2
<input type="checkbox"/> b. Turf Shall Not Be Installed on Slopes Exceeding 10% or in Areas Less than 8 Feet Wide	0					2
<input type="checkbox"/> c. Turf is ≤33% of Landscaped Area (total 2 points)	0					2
<input type="checkbox"/> d. Turf is ≤10% of Landscaped Area (total 4 points)	0					2
<input type="checkbox"/> 4. Plant Shade Trees	0					3
<input type="checkbox"/> 5. Group Plants by Water Needs (Hydrozoning)	0					2
6. Install High-Efficiency Irrigation Systems						
<input type="checkbox"/> a. System Uses Only Low-Flow Drip, Bubblers, or Low-flow Sprinklers	0					2
<input type="checkbox"/> b. System Has Smart (Weather-Based) Controllers	0					3
<input type="checkbox"/> 7. Apply Two Inches of Compost in the Top 6 to 12 Inches of Soil	0					3
<input type="checkbox"/> 8. Mulch All Planting Beds to the Greater of 2 Inches or Local Water Ordinance Requirement	0					2
<input type="checkbox"/> 9. Use 50% Salvaged or Recycled-Content Materials for 50% of Non-Plant Landscape Elements	0				1	
<input type="checkbox"/> 10. Reduce Light Pollution by Shielding Fixtures and/or Directing Light Downward	0	1				
Total Points Available in Landscaping = 31		0				
D. STRUCTURAL FRAME & BUILDING ENVELOPE		Points Available Per Measure				
1. Apply Optimal Value Engineering						
<input type="checkbox"/> a. 2x4 Studs at 24-Inch On Center Framing	0				1	
<input type="checkbox"/> b. Door and Window Headers Sized for Load	0				1	
<input type="checkbox"/> c. Use Only Jack and Cripple Studs Required for Load	0				1	

ENTER PROJECT NAME		Points Achieved	Community	Energy	IAQ/Health	Resources	Water
<input type="checkbox"/>	2. Use Engineered Lumber						
<input type="checkbox"/>	a. Beams and Headers	0				1	
<input type="checkbox"/>	b. Insulated Engineered Headers	0		1			
<input type="checkbox"/>	c. Wood I-Joists or Web Trusses for Floors	0				1	
<input type="checkbox"/>	d. Wood I-Joists for Roof Rafters	0				1	
<input type="checkbox"/>	e. Engineered or Finger-Jointed Studs for Vertical Applications	0				1	
<input type="checkbox"/>	f. Oriented Strand Board for Subfloor	0				1	
<input type="checkbox"/>	g. Oriented Strand Board for Wall and Roof Sheathing	0				1	
<input type="checkbox"/>	3. Use FSC-Certified Wood						
<input type="checkbox"/>	a. Dimensional Studs: Minimum 40%	0				2	
<input type="checkbox"/>	b. Dimensional Studs: Minimum 70%	0				2	
<input type="checkbox"/>	c. Panel Products: Minimum 40%	0				1	
<input type="checkbox"/>	d. Panel Products: Minimum 70%	0				1	
<input type="checkbox"/>	4. Use Solid Wall Systems (Includes SIPs, ICFs, & Any Non-Stick Frame Assembly)						
<input type="checkbox"/>	a. Floors	0		2		2	
<input type="checkbox"/>	b. Walls	0		2		2	
<input type="checkbox"/>	c. Roofs	0		2		2	
<input type="checkbox"/>	5. Reduce Pollution Entering the Home from the Garage						
<input type="checkbox"/>	a. Tightly Seal the Air Barrier between Garage and Living Area	0			1		
<input type="checkbox"/>	b. Install Garage Exhaust Fan OR Build a Detached Garage	0			1		
<input type="checkbox"/>	6. Design Energy Heels on Trusses (75% of Attic Insulation Height at Outside Edge of Exterior Wall)	0		1			
<input type="checkbox"/>	7. Design Roof Trusses to Accommodate Ductwork	0		1			
<input type="checkbox"/>	8. Use Recycled-Content Steel Studs for 90% of Interior Wall Framing	0				1	
<input type="checkbox"/>	9. Thermal Mass Walls: 5/8-Inch Drywall on All Interior Walls or Walls Weighing more than 40 lb/cu.ft.	0		1			
<input type="checkbox"/>	10. Install Overhangs and Gutters						
<input type="checkbox"/>	a. Minimum 16-Inch Overhangs and Gutters	0				1	
<input type="checkbox"/>	b. Minimum 24-Inch Overhangs and Gutters	0		1			
Total Points Available in Structural Building Frame and Envelope = 36		0					
E. EXTERIOR FINISH			Points Available Per Measure				
<input type="checkbox"/>	1. Use Recycled-Content (No Virgin Plastic) or FSC-Certified Wood Decking	0				2	
<input type="checkbox"/>	2. Install a Rain Screen Wall System	0				2	
<input type="checkbox"/>	3. Use Durable and Non-Combustible Siding Materials	0				1	
<input type="checkbox"/>	4. Select Durable and Non-Combustible Roofing Materials	0				2	
Total Points Available in Exterior Finish = 7		0					
F. INSULATION			Points Available Per Measure				
<input type="checkbox"/>	1. Install Insulation with 75% Recycled Content						
<input type="checkbox"/>	a. Walls and/or Floors	0				1	
<input type="checkbox"/>	b. Ceilings	0				1	
<input type="checkbox"/>	2. Install Insulation that is Low-Emitting (Certified Section 01350)						
<input type="checkbox"/>	a. Walls and/or Floors	0			1		
<input type="checkbox"/>	b. Ceilings	0			1		
<input type="checkbox"/>	3. Inspect Quality of Insulation Installation before Applying Drywall	0		1			
Total Points Available in Insulation = 5		0					
G. PLUMBING			Points Available Per Measure				
<input type="checkbox"/>	1. Distribute Domestic Hot Water Efficiently (Maximum 7 Points)						
<input type="checkbox"/>	a. Insulate Hot Water Pipes from Water Heater to Kitchen	0		1			1
<input type="checkbox"/>	b. Insulate All Hot Water Pipes	0		1			1
<input type="checkbox"/>	c. Use Engineered Parallel Piping	0					1
<input type="checkbox"/>	d. Use Engineered Parallel Piping with Recirculation Loop(s)	0					1
<input type="checkbox"/>	e. Use Structured Plumbing with Recirculation Loop	0		1			2
<input type="checkbox"/>	f. Use Central Core Plumbing	0		1		1	2
<input type="checkbox"/>	2. Install Only High Efficiency Toilets (Dual-Flush or ≤1.3 gpf)	0					4
Total Points Available in Plumbing = Total 12		0					
H. HEATING, VENTILATION & AIR CONDITIONING			Points Available Per Measure				
<input type="checkbox"/>	1. Design and Install HVAC System to ACCA Manual J, D, and S Recommendations	0		4			
<input type="checkbox"/>	2. Install Sealed Combustion Units						
<input type="checkbox"/>	a. Furnaces	0			2		
<input type="checkbox"/>	b. Water Heaters	0			2		
<input type="checkbox"/>							

ENTER PROJECT NAME		Points Achieved	Community	Energy	IAQ/Health	Resources	Water
<input type="checkbox"/>	3. Install Zoned, Hydronic Radiant Heating with Slab Edge Insulation	0		1	1		
<input type="checkbox"/>	4. Install High Efficiency Air Conditioning with Environmentally Responsible Refrigerants	0	1				
5. Design and Install Effective Ductwork							
<input type="checkbox"/>	a. Install HVAC Unit and Ductwork within Conditioned Space	0		3			
<input type="checkbox"/>	b. Use Duct Mastic on All Duct Joints and Seams	0		1			
<input type="checkbox"/>	c. Install Ductwork under Attic Insulation (Buried Ducts)	0		1			
<input type="checkbox"/>	d. Pressure Balance the Ductwork System	0		1			
<input type="checkbox"/>	e. Protect Ducts during Construction and Clean All Ducts before Occupancy	0		1			
<input type="checkbox"/>	6. Install High Efficiency HVAC Filter (MERV 6+)	0			1		
<input type="checkbox"/>	7. Don't Install Fireplaces or Install Sealed Gas Fireplaces with Efficiency Rating Less Than 60% using CSA Standards	0			1		
8. Install Effective Exhaust Systems in Bathrooms and Kitchens							
<input type="checkbox"/>	a. Install ENERGY STAR Bathroom Fans Vented to the Outside	0			1		
<input type="checkbox"/>	b. All Bathroom Fans Are on Timer or Humidistat	0			1		
<input type="checkbox"/>	c. Install Kitchen Range Hood Vented to the Outside	0			1		
9. Install Mechanical Ventilation System for Cooling (Maximum 4 Points)							
<input type="checkbox"/>	a. Install ENERGY STAR Ceiling Fans & Light Kits in Living Areas & Bedrooms	0		1			
<input type="checkbox"/>	b. Install Whole House Fan with Variable Speeds	0		1			
<input type="checkbox"/>	c. Automatically Controlled Integrated System	0		2			
<input type="checkbox"/>	d. Automatically Controlled Integrated System with Variable Speed Control	0		3			
10. Install Mechanical Fresh Air Ventilation System (Maximum 3 Points)							
<input type="checkbox"/>	a. Any Whole House Ventilation System That Meets ASHRAE 62.2	0			2		
<input type="checkbox"/>	b. install Air-to-Air Heat Exchanger that meets ASHRAE 62.2	0		1	2		
<input type="checkbox"/>	11. Install Carbon Monoxide Alarm(s)	0			1		
Total Points Available in Heating, Ventilation and Air Conditioning = 30		0					
I. RENEWABLE ENERGY			Points Available Per Measure				
<input type="checkbox"/>	1. Pre-Plumb for Solar Hot Water Heating	0		4			
<input type="checkbox"/>	2. Install Solar Water Heating System	0		10			
<input type="checkbox"/>	3. Install Wiring Conduit for Future Photovoltaic Installation & Provide 200 ft ² of South-Facing Roof	0		2			
4. Install Photovoltaic (PV) Panels							
<input type="checkbox"/>	a. 30% of electric needs OR 1.2 kw (total 6 points)	0		6			
<input type="checkbox"/>	b. 60% of electric needs OR 2.4kw (total 12 points)	0		6			
<input type="checkbox"/>	c. 90% of electric need OR 3.6 kw (total 18 points)	0		6			
Total Available Points in Renewable Energy = 28		0					
J. BUILDING PERFORMANCE			Points Available Per Measure				
1. Diagnostic Evaluations							
<input type="checkbox"/>	a. House Passes Blower Door Test	0		1			
<input type="checkbox"/>	b. House Passes Combustion Safety Backdraft Test	0			1		
	2. Design and Build High Performance Homes - % above Title 24 - minimum 15% <i>Required</i>	0		≥30			
<input type="checkbox"/>	3. House Obtains ENERGY STAR with Indoor Air Package Certification - <i>Pilot Measure</i> (Total 45 points; read comment)	0			5	2	
Total Available Points in Building Performance = 39		0					
K. FINISHES			Points Available Per Measure				
<input type="checkbox"/>	1. Design Entryways to Reduce Tracked in Contaminants	0			1		
2. Use Low-VOC or Zero-VOC Paint (Maximum 3 Points)							
<input type="checkbox"/>	a. Low-VOC Interior Wall/Ceiling Paints (<50 gpl VOCs (Flat) and <150 gpl VOCs (Non-Flat))	0			1		
<input type="checkbox"/>	b. Zero-VOC: Interior Wall/Ceiling Paints (<5 gpl VOCs (Flat))	0			3		
<input type="checkbox"/>	3. Use Low VOC, Water-Based Wood Finishes (<250 gpl VOCs)	0			2		
<input type="checkbox"/>	4. Use Low-VOC Caulk and Construction Adhesives (<70 gpl VOCs) for All Adhesives	0			2		
<input type="checkbox"/>	5. Use Recycled-Content Paint	0				1	
6. Use Environmentally Preferable Materials for Interior Finish: A) FSC-Certified Wood, B) Reclaimed, C) Rapidly Renewable, D) Recycled-Content or E) Finger-Jointed							
<input type="checkbox"/>	a. Cabinets (50% Minimum)	0				1	
<input type="checkbox"/>	b. Interior Trim (50% Minimum)	0				1	
<input type="checkbox"/>	c. Shelving (50% Minimum)	0				1	
<input type="checkbox"/>	d. Doors (50% Minimum)	0				1	
<input type="checkbox"/>	e. Countertops (50% Minimum)	0				1	

ENTER PROJECT NAME		Points Achieved	Community	Energy	IAQ/Health	Resources	Water
<input type="checkbox"/>	7. Reduce Formaldehyde in Interior Finish (CA Section 01350)						
<input type="checkbox"/>	a. Subfloor & Stair Treads (50% Minimum)	0			1		
<input type="checkbox"/>	b. Cabinets & Countertops (50% Minimum)	0			1		
<input type="checkbox"/>	c. Interior Trim (50% Minimum)	0			1		
<input type="checkbox"/>	d. Shelving (50% Minimum)	0			1		
<input type="checkbox"/>	8. After Installation of Finishes, Test of Indoor Air Shows Formaldehyde Level <27ppb	0			3		
Total Available Points in Finishes = 21		0					

L. FLOORING		Points Available Per Measure					
<input type="checkbox"/>	1. Use Environmentally Preferable Flooring: A) FSC-Certified Wood, B) Reclaimed or Refinished, C) Rapidly Renewable, D) Recycled-Content, E) Exposed Concrete. Flooring Adhesives Must Have <50 gpl VOCs.						
<input type="checkbox"/>	a. Minimum 15% of Floor Area	0				1	
<input type="checkbox"/>	b. Minimum 30% of Floor Area	0				1	
<input type="checkbox"/>	c. Minimum 50% of Floor Area	0				1	
<input type="checkbox"/>	d. Minimum 75% of Floor Area	0				1	
<input type="checkbox"/>	2. Thermal Mass Floors: Floor Covering Other than Carpet on 50% or More of Concrete Floors	0		1			
<input type="checkbox"/>	3. Flooring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)	0			2		
Total Available Points in Flooring = 7		0					

M. APPLIANCES AND LIGHTING		Points Available Per Measure					
<input type="checkbox"/>	1. Install Water and Energy Efficient Dishwasher						
<input type="checkbox"/>	a. ENERGY STAR (total 1 point)	0		1			
<input type="checkbox"/>	b. Dishwasher Uses No More than 6.5 Gallons/Cycle (total 2 points)	0					1
<input type="checkbox"/>	2. Install ENERGY STAR Clothes Washing Machine with Water Factor of 6 or Less						
<input type="checkbox"/>	a. Meets Energy Star and CEE Tier 2 requirements (modified energy factor 2.0, Water Factor 6.0) (total 3 points)	0		1			2
<input type="checkbox"/>	b. Meets Energy Star and CEE Tier 3 requirements (modified energy factor 2.2, Water Factor 4.5 or less) (total 5 points)	0					2
<input type="checkbox"/>	3. Install ENERGY STAR Refrigerator						
<input type="checkbox"/>	a. ENERGY STAR Qualified & < 25 Cubic Feet Capacity	0		1			
<input type="checkbox"/>	b. ENERGY STAR Qualified & < 20 Cubic Feet Capacity	0		1			
<input type="checkbox"/>	4. Install Built-In Recycling Center						
<input type="checkbox"/>	a. Built-In Recycling Center	0				2	
<input type="checkbox"/>	b. Built-In Composting Center	0				1	
Total Available Points in Appliances and Lighting = 12		0					

N. OTHER		Points Available Per Measure					
<input type="checkbox"/>	1. Incorporate GreenPoint Rated Checklist in Blueprints - Required	0					R
<input type="checkbox"/>	2. Develop Homeowner Manual of Green Features/Benefits	0		1	1		1
<input type="checkbox"/>	3. Community Design Measures & Local Priorities: See the Community Planning & Design section in Chapter 4 of the New Home Guidelines for measures. Maximum of 20 points for suggested measures. Local requirements may also be listed here.						
<input type="checkbox"/>	Enter description here, and enter points available for measure in appropriate categories to the right.	0	10	30	0	0	0
<input type="checkbox"/>	Enter description here, and enter points available for measure in appropriate categories to the right.	0	10	0	0	0	0
<input type="checkbox"/>	Enter description here, and enter points available for measure in appropriate categories to the right.	0	10	0	0	0	0
<input type="checkbox"/>	Enter description here, and enter points available for measure in appropriate categories to the right.	0	20	0	0	0	0
<input type="checkbox"/>	4. Innovation: List innovative measures that meet the green building objectives of the Guidelines. Enter up to a maximum combined total of 20 pts. See Innovation Checklist for suggested measures, using the link to the right.		Build It Green Checklists and Guidelines				
<input type="checkbox"/>	Innovation in Community : Enter description here, and enter points available for measure in appropriate categories to the right.	0	0	0	0	0	0
<input type="checkbox"/>	Innovation in Energy : Enter description here, and enter points available for measure in appropriate categories to the right.	0	0	0	0	0	0
<input type="checkbox"/>	Innovation in IAQ/Health : Enter description here, and enter points available for measure in appropriate categories to the right.	0	0	0	0	0	0
<input type="checkbox"/>	Innovation in Resources : Enter description here, and enter points available for measure in appropriate categories to the right.	0	0	0	0	0	0
<input type="checkbox"/>	Innovation in Water : Enter description here, and enter points available for measure in appropriate categories to the right.	0	0	0	0	0	0
Total Available Points in Other = 43		0					

Summary							
Total Available Points in Specific Categories*			4+	96+	42+	66+	43+
Minimum Points Required in Specific Categories			0	30	5	6	9
Total Points Achieved		0	0	0	0	0	0

Project has not yet met the following recommended minimum requirements:
 - Total Project Score of At Least 50 Points