

Single-Family GreenPoint Checklist 2007 EDITION

POINTS PER CATEGORY	Community	Energy	IAQ/Health	Resources	Water
A. SITE					
1. Protect Topsoil and Minimize Disruption of Existing Plants & Trees					
a. Protect Topsoil from Erosion and Reuse after Construction	1				1
b. Limit and Delineate Construction Footprint for Maximum Protection					1
2. Deconstruct Instead of Demolishing Existing Buildings On Site				3	
3. Recycle Construction Waste (Including Green Waste)					
a. <i>Minimum 50% Waste Diversion by Weight (Recycling or Reuse) - Required</i>				P	
b. Minimum 65% Diversion by Weight (Recycling or Reuse)				2	
c. Minimum 80% Diversion by Weight (Recycling or Reuse)				2	
4. Use Recycled-Content Aggregate (Minimum 25%)					
a. Walkway and Driveway				1	
b. Roadway Base				1	
Site = Total 12					
B. FOUNDATION					
1. Replace Portland Cement in Concrete with Recycled Flyash or Slag					
a. Minimum 20% Flyash or Slag				1	
b. Minimum 25% Flyash or Slag				1	
2. Use Frost-Protected Shallow Foundation in Cold Areas (C.E.C. Climate Zone 16)				3	
3. Use Radon Resistant Construction (In At-Risk Locations Only)			1		
4. Design and Build Structural Pest Controls					
a. Install Termite Shields & Separate All Exterior Wood-to-Concrete Connections by Metal or Plastic Fasteners/Dividers				1	
b. All New Plants Have Trunk, Base, or Stem Located At Least 36 Inches from Foundation				1	
Foundation = Total 8					
C. LANDSCAPING					
1. Construct Resource-Efficient Landscapes					
a. No Invasive Species Listed by Cal-IPC Are Planted					1
b. No Species Will Require Shearing				1	
c. 75% of Plants Are Drought-tolerant California Natives, Mediterranean, or Other Appropriate Species					3
2. Use Fire-Safe Landscaping Techniques	1				
3. Minimize Turf Areas in Landscape Installed by Builder					
a. All Turf Will Have a Water Requirement Less than or Equal to Tall Fescue (0.8 plant factor)					2
b. Turf Shall Not Be Installed on Slopes Exceeding 10% or in Areas Less than 8 Feet Wide					2
c. Turf is <=33% of Landscaped Area (total 2 points)					2
d. Turf is <=10% of Landscaped Area (total 4 points)					2
4. Plant Shade Trees					3
5. Group Plants by Water Needs (Hydrozoning)					2
6. Install High-Efficiency Irrigation Systems					
a. System Uses Only Drip, Bubblers, or Low-flow Sprinklers					2
b. System Has Smart Controllers					3
7. Incorporate Two Inches of Compost into the Top 6 to 12 Inches of Soil					3
8. Mulch All Planting Beds to the Greater of 2 Inches or Local Water Ordinance Requirement					2
9. Use 50% Salvaged or Recycled-Content Materials for 50% of Non-Plant Landscape Elements				1	
10. Reduce Light Pollution from Site Lighting by Shielding Fixtures and/or Directing Light Downward	1				
Landscape = Total 31					

POINTS PER CATEGORY

Community Energy IAQ/Health Resources Water

D. STRUCTURAL FRAME & BUILDING ENVELOPE

1. Apply Optimal Value Engineering					
a. Place Rafters & Studs at 24-Inch On Center Framing				1	
b. Size Door and Window Headers for Load				1	
c. Use Only Jack and Cripple Studs Required for Load				1	
2. Use Engineered Lumber					
a. Beams and Headers				1	
b. Insulated Engineered Headers	1				
c. Wood I-Joists or Web Trusses for Floors				1	
d. Wood I-Joists for Roof Rafters				1	
e. Engineered or Finger-Jointed Studs for Vertical Applications				1	
f. Oriented Strand Board for Subfloor				1	
g. Oriented Strand Board for Wall and Roof Sheathing				1	
3. Use FSC-Certified Wood					
a. Dimensional Lumber, Studs and Timber: Minimum 40% (total 2 points)				2	
b. Dimensional Lumber, Studs, and Timber: Minimum 70% (total 4 points)				2	
c. Panel Products: Minimum 40% (total 1 point)				1	
d. Panel Products: Minimum 70% (total 2 points)				1	
4. Use Solid Wall Systems (Includes SIPs, ICFs, & Any Non-Stick Frame Assembly)					
a. Floors		2		2	
b. Walls		2		2	
c. Roofs		2		2	
5. Reduce Pollution Entering the Home from the Garage					
a. Tightly Seal the Air Barrier between Garage and Living Area			1		
b. Install Garage Exhaust Fan OR Build a Detached Garage			1		
6. Design Energy Heels on Roof Trusses (75% of Attic Insulation Height at Outside Edge of Exterior Wall)		1			
7. Design Roof Trusses to Accommodate Ductwork		1			
8. Use Recycled-Content Steel Studs for 90% of Interior Wall Framing				1	
9. Thermal Mass Walls: 5/8-Inch Drywall on All Interior Walls or Walls Weigh more than 40 lb/cu.ft.		1			
10. Install Overhangs and Gutters					
a. Minimum 16-Inch Overhangs and Gutters				1	
b. Minimum 24-Inch Overhangs and Gutters		1			
Structural Frame and Building Envelope = Total 36					

E. EXTERIOR FINISH

1. Use Recycled-Content (No Virgin Plastic) or FSC-Certified Decking				2	
2. Install a Rain Screen Wall System				2	
3. Use Durable and Noncombustible Siding Materials				1	
4. Use Durable and Noncombustible Roofing Materials				2	
Exterior Finish = Total 7					

F. INSULATION

1. Install Insulation with 75% Recycled Content					
a. Walls and/or Floors				1	
b. Ceilings				1	
2. Install Insulation That Is Low-Emitting (Certified CA Section 01350)					
a. Walls and/or Floors			1		
b. Ceilings			1		
3. Inspect Quality of Insulation Installation before Applying Drywall		1			
Insulation = Total 5					

G. PLUMBING

1. Distribute Domestic Hot Water Efficiently					
a. Insulate Hot Water Pipes from Water Heater to Kitchen		1			1
b. Insulate All Hot Water Pipes		1			1
c. Use Engineered Parallel Piping					1

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d. Use Engineered Parallel Piping with Demand Controlled Circulation Loop					1
e. Use Structured Plumbing with Demand Controlled Circulation Loop		1			2
f. Use Central Core Plumbing		1		1	2
2. Install Only High Efficiency Toilets (Dual-Flush or 1.3 gpf)					4
Plumbing = Total 17					
H. HEATING, VENTILATION & AIR CONDITIONING					
1. Design and Install HVAC System to ACCA Manual J, D, and S Recommendations		4			
2. Install Sealed Combustion Units					
a. Furnaces			2		
b. Water Heaters			2		
3. Install Zoned, Hydronic Radiant Heating with Slab Insulation		1	1		
4. Install High Efficiency Air Conditioning with Environmentally Responsible Refrigerants	1				
5. Design and Install Effective Ductwork					
a. Install HVAC Unit and Ductwork within Conditioned Space		3			
b. Use Duct Mastic on All Duct Joints and Seams		1			
c. Install Ductwork under Attic Insulation (Buried Ducts)		1			
d. Pressure Balance the Ductwork System		1			
e. Protect Ducts during Construction and Clean All Ducts before Occupancy		1			
6. Install High Efficiency HVAC Filter (MERV 6+)			1		
7. Don't Install Fireplaces or Install Sealed Gas Fireplace with Efficiency Rating Not Less Than 60% using CSA Standards			1		
8. Install Effective Exhaust Systems in Bathrooms and Kitchens					
a. Install ENERGY STAR Bathroom Fans Vented to the Outside			1		
b. All Bathroom Fans Are on Timer or Humidistat			1		
c. Install Kitchen Range Hood Vented to the Outside			1		
9. Install Mechanical Ventilation System for Cooling					
a. Install ENERGY STAR Ceiling Fans & Light Kits in Living Areas & Bedrooms		1			
b. Install Whole House Fan with Variable Speeds		1			
c. Automatically Controlled Integrated System		2			
d. Automatically Controlled Integrated System with Variable Speed Control		3			
10. Install Mechanical Fresh Air Ventilation System					
a. Any Whole House Ventilation System That Meets ASHRAE 62.2		1	2		
b. Install Air-to-Air Heat Exchanger		1	2		
11. Install Carbon Monoxide Alarms			1		
Heating, Ventilation and Air Conditioning = Total 37					
I. RENEWABLE ENERGY					
1. Pre-Plumb for Solar Water Heating		4			
2. Install Solar Water Heating System		10			
3. Install Wiring Conduit for Future Photovoltaic Installation & Provide 200 ft ² of South-Facing Roof		2			
4. Install Photovoltaic (PV) Panels					
a. 30% of electric needs OR 1.2 kw (total 6 points)		6			
b. 60% of electric needs OR 2.4kw (total 12 points)		6			
c. 90% of electric need OR 3.6 kw (total 18 points)		6			
Renewable Energy = Total 34					
J. BUILDING PERFORMANCE					
1. Diagnostic Evaluations					
a. House Passes Blower Door Test		1			
b. House Passes Combustion Safety Backdraft Test			1		
2. <i>Design and Build High Performance Homes - 15% above Title 24 - Required</i>		30			
3. House Obtains ENERGY STAR® with Indoor Air Package Certification			5	2	
Building Performance = Total 39					
K. FINISHES					
1. Design Entryways to Reduce Tracked-In Contaminants			1		
2. Use Low-VOC or Zero-VOC Paint					
a. Low-VOC Interior Wall/Ceiling Paints (<50 gpl VOCs (Flat) and <150 gpl VOCs (Non-Flat))			1		
b. Zero-VOC: Interior Wall/Ceiling Paints (<5 gpl VOCs (Flat))			3		

POINTS PER CATEGORY	Community	Energy	IAQ/Health	Resources	Water	
3. Use Low-VOC, Water-Based Wood Finishes (<250 gpl VOCs)			2			
4. Use Low-VOC Caulk and Construction Adhesives (<70 gpl VOCs) for All Adhesives			2			
5. Use Recycled-Content Paint				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						
a. Cabinets (50% Minimum)				1		
b. Interior Trim (50% Minimum)				1		
c. Shelving (50% Minimum)				1		
d. Doors (50% Minimum)				1		
e. Countertops (50% Minimum)				1		
7. Reduce Formaldehyde in Interior Finishes (CA Section 01350)						
a. Subfloor & Stair Treads (50% Minimum)			1			
b. Cabinets & Countertops (50% Minimum)			1			
c. Interior Trim (50% Minimum)			1			
d. Shelving (50% Minimum)			1			
8. After Installation of Finishes, Test of Indoor Air Shows Formaldehyde Level <27ppb			3			
Finishes = Total 22						
L. FLOORING						
1. Use Environmentally Preferable Flooring: A) FSC-Certified Wood B) Reclaimed C) Rapidly Renewable D) Recycled-Content E) Exposed Concrete. <i>Flooring Adhesives Must Have <50 gpl VOCs.</i>						
a. Minimum 15% of Floor Area				1		
b. Minimum 30% of Floor Area				1		
c. Minimum 50% of Floor Area				1		
d. Minimum 75% of Floor Area				1		
2. Thermal Mass Floors: Floor Covering Other than Carpet on 50% or More of Concrete Floors		1				
3. Flooring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)			2			
Flooring = Total 7						
M. APPLIANCES						
1. Install Water- and Energy-Efficient Dishwasher						
a. ENERGY STAR		1				
b. Dishwasher Uses No More than 6.5 Gallons/Cycle (total 2 points)					1	
2. Install Water- and Energy-Efficient Clothes Washing Machine						
a. Meets CEE Tier 2 requirements (modified energy factor 2.0, Water Factor 6.0) (total 3 points)		1			2	
b. Meets CEE Tier 3 requirements (modified energy factor 2.2, Water Factor 4.5 or less) (total 5 points) ²						
3. Install ENERGY STAR Refrigerator						
a. ENERGY STAR Qualified & < 25 Cubic Feet Capacity		1				
b. ENERGY STAR Qualified & < 20 Cubic Feet Capacity		1				
4. Install Built-In Recycling & Composting Center						
a. Built-In Recycling Center				2		
b. Built-In Composting Center				1		
Appliances and Lighting = Total 12						
N. OTHER						
1. <i>Incorporate GreenPoint Rated Checklist in Blueprints - Required</i>				P		
2. Develop Homeowner Manual of Green Features/Benefits		1	1		1	
3. Innovative Measures That Meet the Green Building Objectives of the Guidelines. Maximum of 20 points.						
4. Community Design Measures and Local Priorities: Maximum of 20 points.	20					
Other = Total 43						
	Community	Energy	IAQ/Health	Resources	Water	Total
Total Available Points in Specific Categories	24	108	45	66	47	290
Innovation Points Available in Any Category						20
OVERALL TOTAL (Note: Some points are not applicable to every project type.)						310
MINIMUM POINTS REQUIRED IN SPECIFIC CATEGORIES		30	5	6	9	50