

# RESIDENTIAL GREEN BUILDING



## Green Building Suggestions:

### Project Site:

- Minimize Disruption of native soil
- Salvage Reusable Building Materials and Recycle Demolition Waste
- Incorporate Onsite Storm Water Control Measures
- Utilize High Efficiency Irrigation and Drainage Systems
- Incorporate Efficient Landscape Design Principles

### Structural Materials & Systems:

- Utilize Recycled Aggregate in Foundation
- Provide Insulation in Foundation Prior to Backfill
- Utilize Reclaimed Lumber Wherever Possible
- Utilize FSC (Forest Stewardship Council) Certified Lumber for Framing
- Utilize OSB (Oriented Strand Board) for subfloor and sheathing
- Utilize Finger-Jointed, Engineered or Steel Studs for Vertical Framing
- Apply Advanced Framing Techniques When Possible

### Electrical:

- Utilize Compact Fluorescent Light Bulbs (CFL's) Wherever Possible
- Install Energy Efficient Lighting Controls
- Install High-Efficiency Ceiling Fans with CFL's
- Utilize Insulation-Compatible, Air-Tight Recessed Lighting Fixtures with CFL's

### Plumbing Fixtures:

- Provide Insulation for Hot and Cold Water Pipes
- Retrofit all Faucets and Showerheads with Low-Flow Reducers
- Utilize Low-Flush Toilets
- Utilize On-Demand Hot Water Circulation Pumps
- Utilize Tankless Water Heaters and Convert Existing Tank-Type Water Heaters to Tankless Wherever Possible
- Install Chlorine Filters on all Showerheads

### Flooring:

- Utilize Exposed Concrete as a Finished Floor Material
- Utilize Natural Linoleum in Place of Vinyl Flooring
- Select FSC Certified Wood for Flooring
- Utilize Rapidly Renewable Flooring Materials
- Install Recycled-Content Carpet with low VOC's (Volatile Organic Compounds)

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## Green Building Suggestions (Page 2):

### Windows:

- Install Energy Efficient Windows or Upgrade Existing Windows to Double-Pane Low-E Windows
- Install Low Solar Heat Gain Coefficient Window Film on Single-Glazed Windows

### Heating, Ventilation, and Air Conditioning:

- Utilize Forced Air Furnaces with an Efficiency Rating of 90% or Higher
- Utilize Heat Recovery Ventilation Units Where Feasible
- Utilize 13 SEER and 11 EER (or higher) Air Conditioning with Non HCFC Refrigerant
- Duct Mastic Should be Provided at all Duct Joints
- Attic Ventilation Systems or Solar Attic Fans Should be Installed Where Possible
- Zoned, Hydronic, Radiant Heating Should be Utilized Where Feasible
- A Heat Recovery Ventilation Unit (HRV) Should be Installed Where Possible
- A Whole House Fan Should be Installed Where Feasible

### Natural Cooling and Heating:

- Deciduous Shade Trees Should be Used along the West and South Sides of the Structure
- Awnings or Overhangs Should be Installed Over South Facing Windows
- Passive Solar Heating Should be Used Wherever Feasible

### Solar and Renewable Energy:

- A Radiant Barrier Should be Installed
- Solar Water Heating Systems Should be Used Whenever Possible
- Photovoltaic Systems Shall be Used Whenever Possible

### Helpful Links to Energy Saving Websites:

Build it Green: <http://www.builditgreen.org>

Environmental Protection Agency: <http://www.epa.gov/greenbuilding>

Green Building.com: <http://www.greenbuilding.com>

Going Green.com: <http://goinggreen.com>

