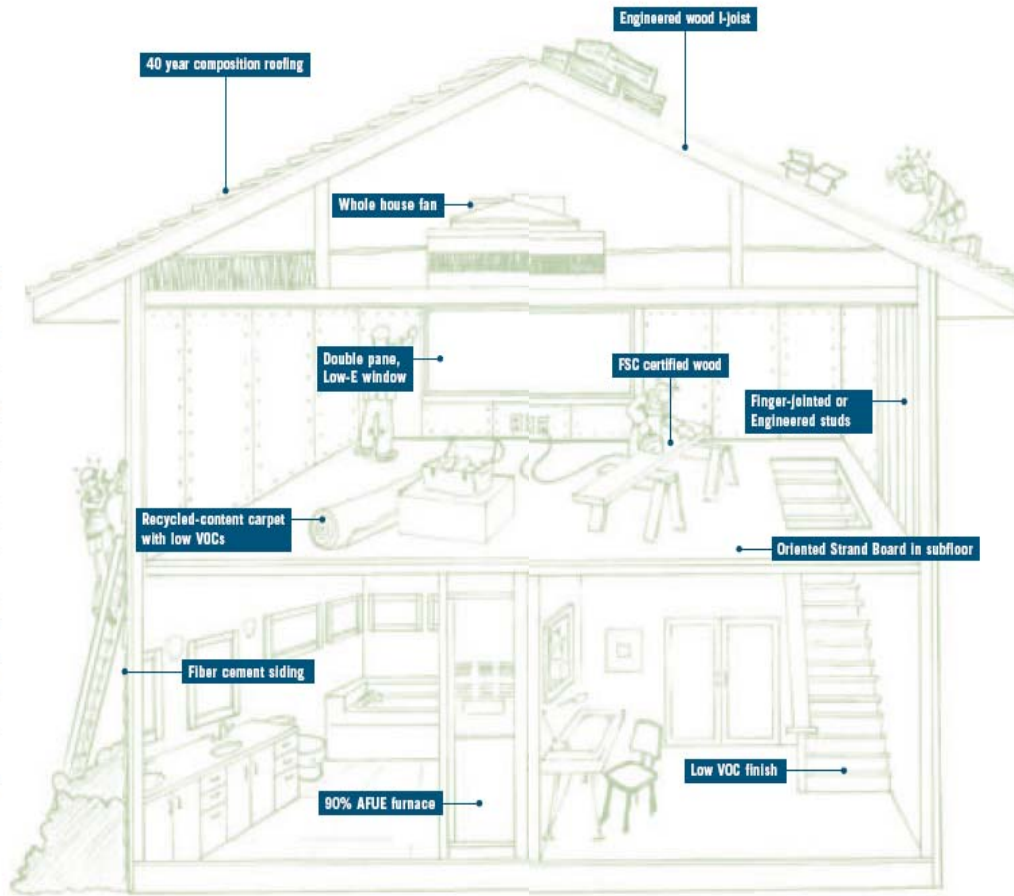


# Second Floor

Consider the following green remodeling options in a second floor.



- Site**
- Recycle Job Site Construction and Demolition Waste
  - Salvage Reusable Building Materials
  - Implement Construction Site Stormwater Practices

- Structural Frame**
- Substitute Solid Sawn Lumber with Engineered Lumber
  - Use FSC Certified Wood for Framing
  - Use Wood I-Joists for Floors and Ceilings
  - Use OSB for Subfloor and Sheathing
  - Use Finger-Jointed, Engineered or Steel Studs for Vertical Applications
  - Use Web Floor Trusses
  - Design Energy Heels on Roof Trusses 6" or More
  - Apply Advanced Framing Techniques

- Exterior Finish**
- Use Treated Wood that Does Not Contain Chromium or Arsenic for Decking and Sill Plates
  - Use Fiber-Cement Siding Materials
  - Install House Wrap Under Siding

- Plumbing**
- Insulate Hot and Cold Water Pipes
  - Install Chlorine Filter on Showerhead
  - Install Water Filtration Units at Faucets
  - Install On-Demand Hot Water Circulation Pump

- Electrical**
- Install Compact Fluorescent Light Bulbs (CFLs)
  - Install Lighting Controls
  - Install High Efficiency Ceiling Fans with CFLs
  - Install Insulation-Compatible, Air-Tight Recessed Lighting Fixtures with CFLs

- Insulation**
- Upgrade Wall and Ceiling Insulation to Exceed Title 24 Requirements
  - Install Recycled-Content Fiberglass Insulation with No Added Formaldehyde
  - Use Cellulose and Other Alternative Insulation
  - Install Floor Insulation Over Crawl Space

- Windows**
- Install Energy-Efficient Windows
  - Install Low Solar Heat Gain Coefficient Window Film on Single-Glazing

**Heating, Ventilation and Air Conditioning (HVAC)**

- Use Duct Mastic on all Duct Joints
- Install New Ductwork within Conditioned Space
- Clean all Ducts Before Occupancy
- Install Whole House Fan
- Install 90% or Greater Efficiency Gas Forced Air Furnace
- Install Heat Recovery Ventilation Unit (HRV)
- Install High Efficiency Filter
- Install 13 SEER and 11 EER (or higher) Air Conditioning with Non HCFC Refrigerant with a TXV
- Install Sealed Combustion Units
- Install Attic Ventilation Systems or Solar Attic Fan

**Renewable Energy and Roofing**

- Install Radiant Barrier
- Pre-Wire or Install Photovoltaic (PV) System
- Select Safe and Durable Roofing Materials

**Natural Heating and Cooling**

- Incorporate Passive Solar Heating
- Install Overhangs or Awnings over South Facing Windows

**Indoor Air Quality / Finishes**

- Use Low/No-VOC Paint
- Use Low VOC, Water-Based Wood Finishes
- Use Low/No VOC Adhesives
- Use Exterior Grade Plywood for Interior Uses
- Use FSC Certified Materials for Interior Finish
- Seal all Exposed Particleboard or MDF
- Using Finger Jointed or Recycled-Content Trim
- Using Engineered Sheet Goods with No Added Formaldehyde

**Flooring**

- Select FSC Certified Wood Flooring
- Use Rapidly Renewable Flooring Materials
- Use Recycled-Content Ceramic Tile
- Install Natural Linoleum in Place of Vinyl
- Install Recycled-Content Carpet with low VOCs