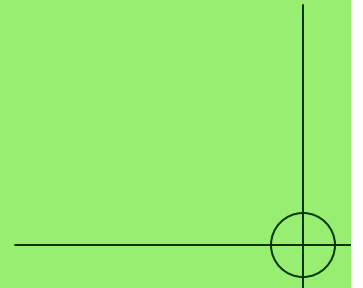


# Green Building Materials

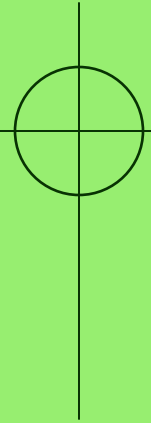
## Sustainable Construction Methods





# Selection Criteria

- Aesthetic Quality
  - Durability
  - Ecological Impact
  - Embodied Energy
  - Performance
  - Social Impact
  - Cost???
- 

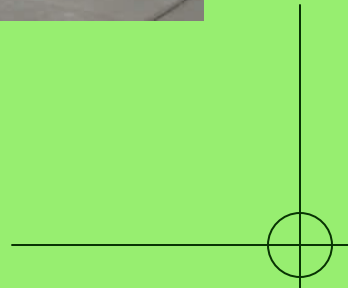


# Cost vs. Value

Is it cheap?

Is it cheaper?

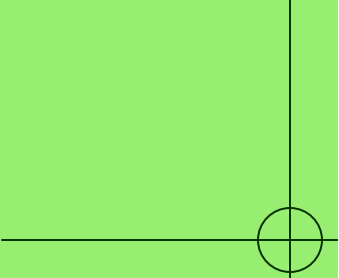
Is it the cheapest?





# Cost vs. Value

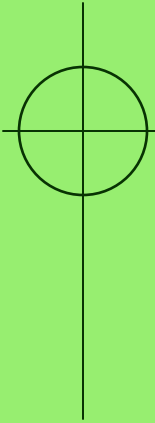
## Is it the better?

- Aesthetic Quality
  - Durability
  - Ecological Impact
  - Embodied Energy
  - Performance
  - Social Impact
- 



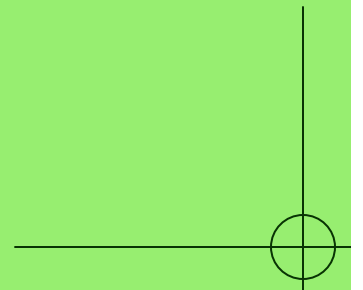
# Green Building Materials

- Flooring
  - Wall Finishes
  - Cabinetry
  - Solid Surfaces
  - Tile
  - Insulation
- 



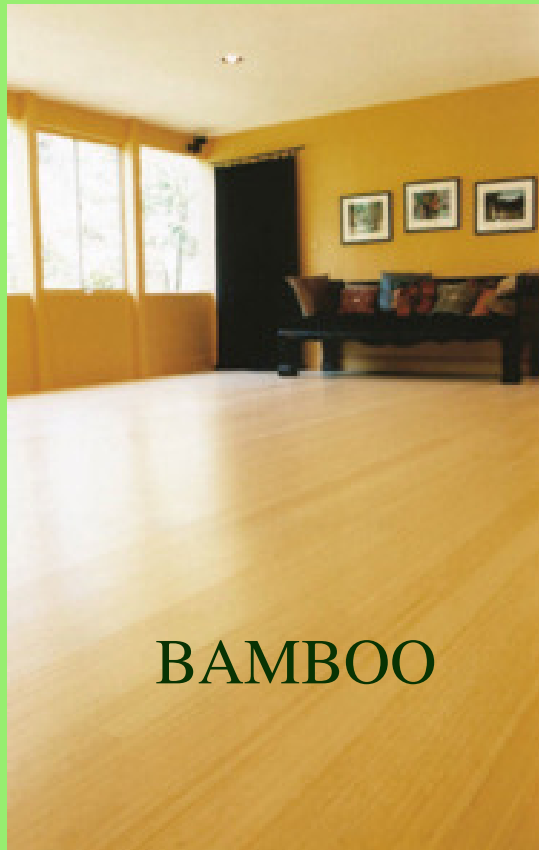
# Flooring

- Rapidly Renewable Flooring
- “Waste” Based Flooring
- FSC Certified Flooring
- Sustainable Carpeting



# Flooring

Rapidly Renewable Flooring Options

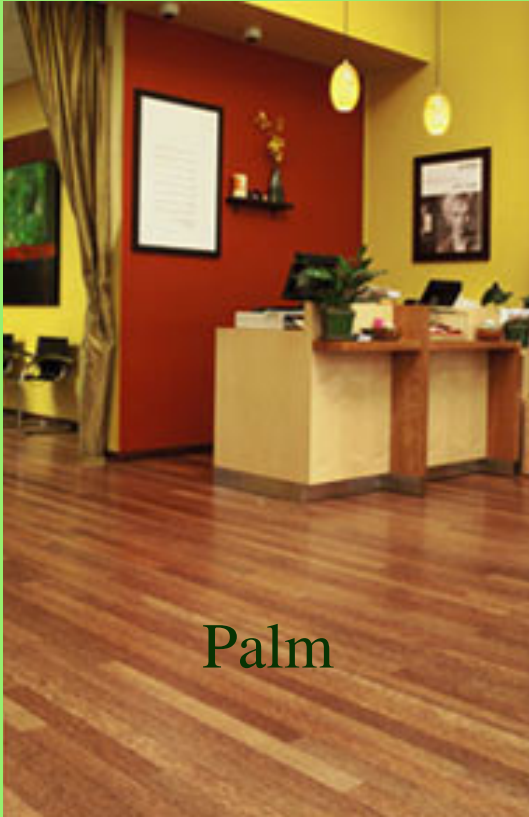


BAMBOO



# Flooring

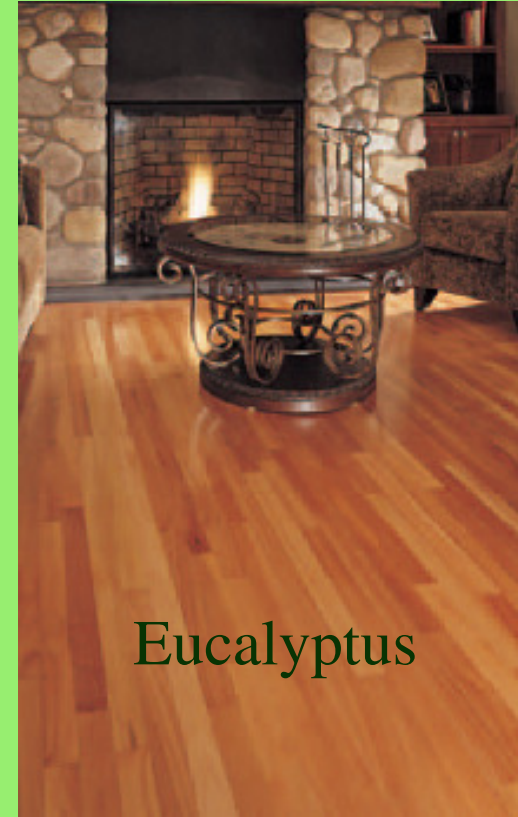
## Rapidly Renewable Flooring Options



Palm



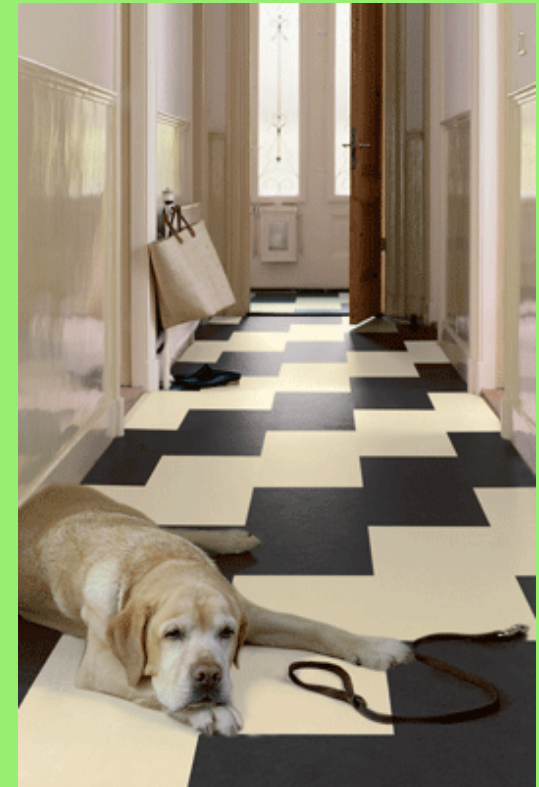
Sorghum

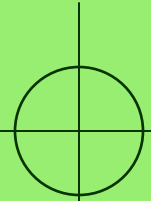


Eucalyptus

# Flooring

## Rapidly Renewable Flooring Options





# Flooring

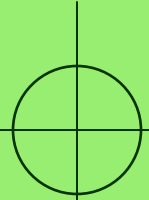
## “Waste” Based Flooring Options



# Flooring

## “Waste” Based Flooring Options





# Flooring

## Sustainable Carpeting



**Wool**

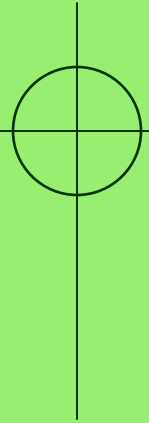


**Sisal**



**Sea Grass**





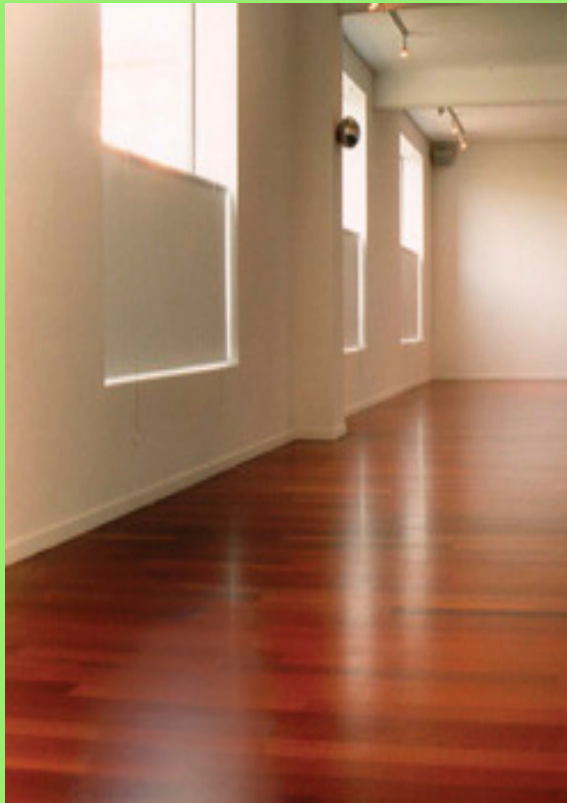
# Flooring

## Sustainable Carpeting



# Flooring

Forest Stewardship Council (FSC) Certified Flooring





# Flooring

## FSC Certification Criteria

**PRINCIPLE #1: COMPLIANCE WITH LAWS AND FSC PRINCIPLES**

**PRINCIPLE #2: TENURE AND USE RIGHTS AND RESPONSIBILITIES**

**PRINCIPLE #3: INDIGENOUS PEOPLES' RIGHTS**

**PRINCIPLE #4: COMMUNITY RELATIONS AND WORKER'S RIGHTS**

**PRINCIPLE # 5: BENEFITS FROM THE FOREST**

**PRINCIPLE #6: ENVIRONMENTAL IMPACT**

**PRINCIPLE #7: MANAGEMENT PLAN**

**PRINCIPLE #8: MONITORING AND ASSESSMENT**

**PRINCIPLE # 9: MAINTENANCE OF HIGH CONSERVATION VALUE FORESTS**

**PRINCIPLE # 10: PLANTATIONS**





# Flooring

## Other Certification Bodies?

### **SFI (Sustainable Forestry Initiative)**

- Funded and dominated by the timber industry
- Weak environmental protections
- Allows conversion of natural forests (including old-growth) into tree farms
- No credible Chain of Custody to keep out illegal wood

### **CSA (Canadian Standards Association)**

- Allows large-scale clearing of old-growth
- Fails to protect First Nations

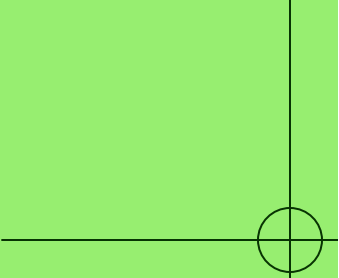
### **IBAMA**

- Program of the Brazilian government
- Low environmental standards, poorly enforced
- No Chain of Custody

### **PEFC - Program for the Endorsement of Forest Certification**

- Weak environmental standards
- No credible Chain of Custody
- Mutually recognizes virtually all forest certification systems, including SFI and CSA
- PEFC wood could come from almost any source

### **ISO (International Standards Organization)**

- Standards address manufacturing practices, not forest management
- 

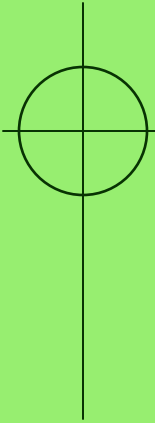
# Flooring

## “Waste” Based Flooring Options



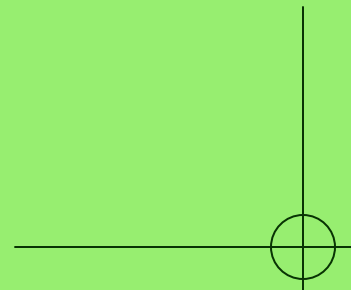
**Reclaimed & Forest  
Salvaged Woods**





# Wall Finishes

- Low & Zero VOC Paints
- Natural Plaster
- Natural Paints



# Wall Finishes

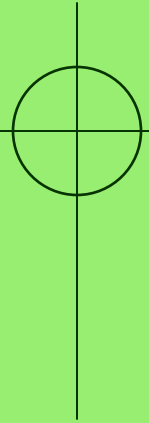
## Zero VOC Paints



# Wall Finishes

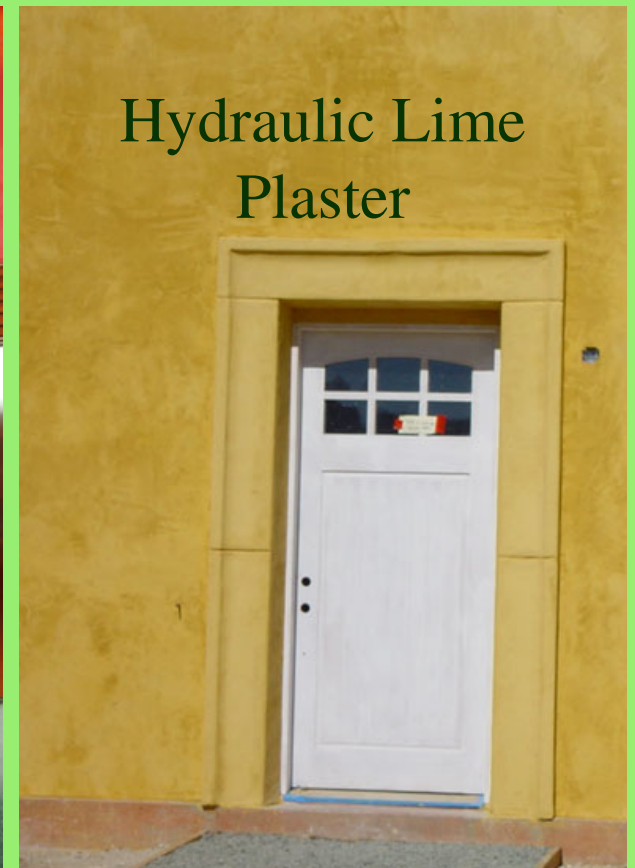
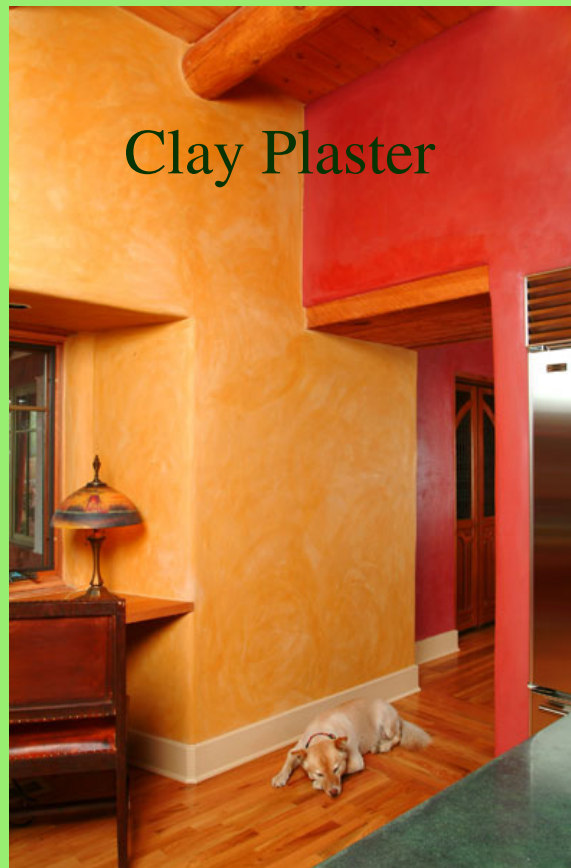
Low VOC Paints?

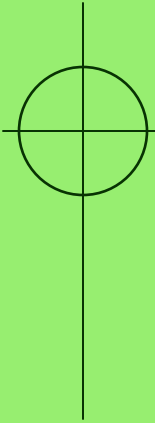




# Wall Finishes

## Natural Plaster

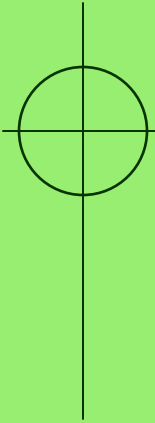




# Wall Finishes

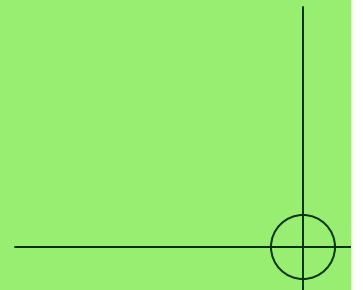
## Natural Paints

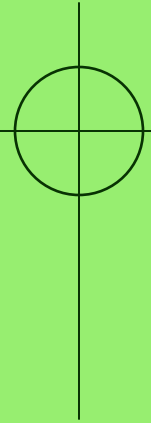




# Cabinetry

- Alternatives to Wood
- FSC Certified Wood





# Cabinetry

Alternatives to Wood



Sorghum

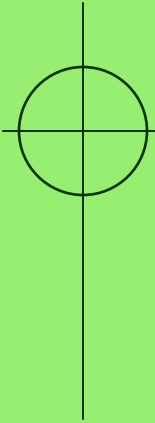


Bamboo



Palm

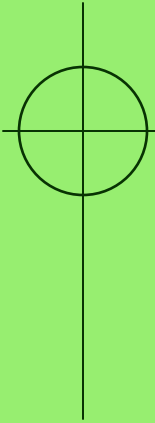




# Cabinetry

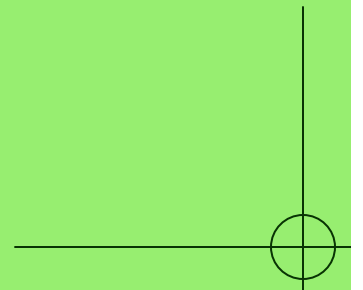
FSC Certified Wood

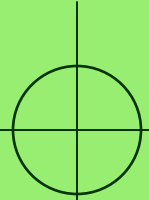




# Solid Surfaces

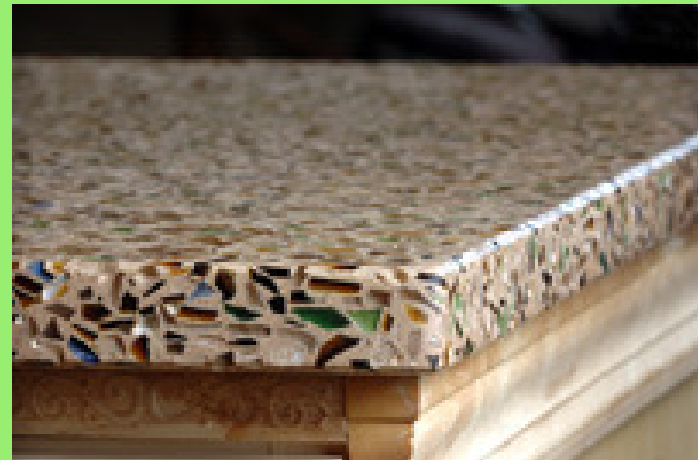
- “Waste” Based Countertop Materials
- Paper-Based Countertop Materials





# Solid Surfaces

“Waste” Based Countertop Materials



# Solid Surfaces

“Waste” Based Countertop Materials



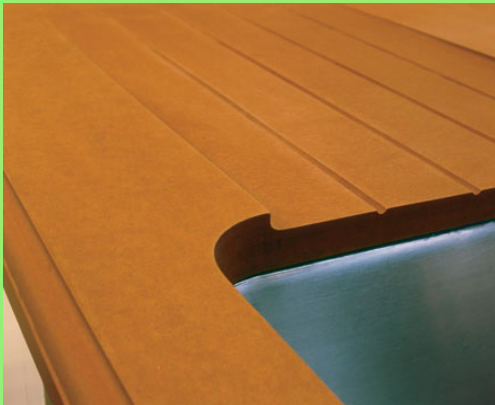
# Solid Surfaces

“Waste” Based Countertop Materials



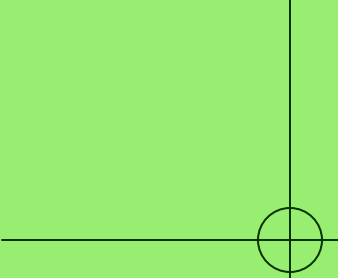
# Solid Surfaces

## Paper-Based Countertop Materials



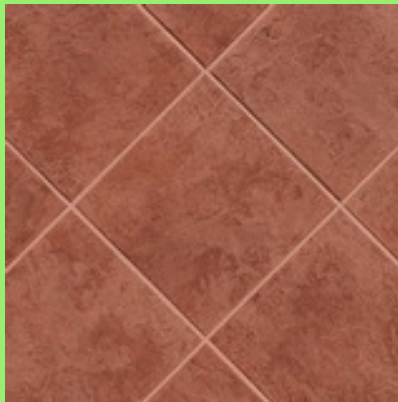


# Tile

- Recycled Stone Tile
  - Recycled Ceramic Tile
  - Recycled Glass Tile
- 

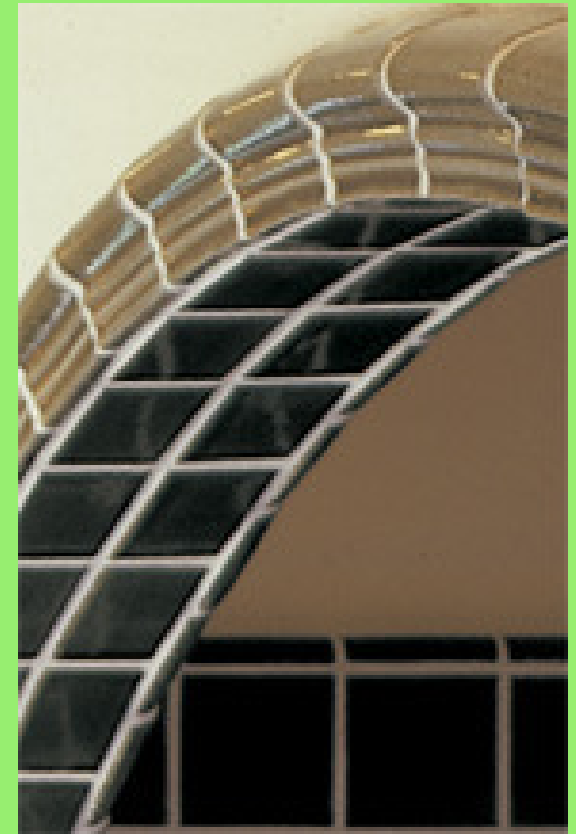
# Tile

## Recycled Stone Tile



# Tile

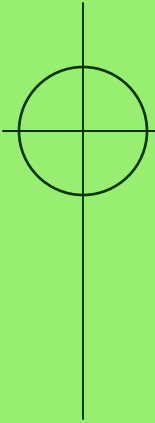
## Recycled Ceramic Tile



# Tile

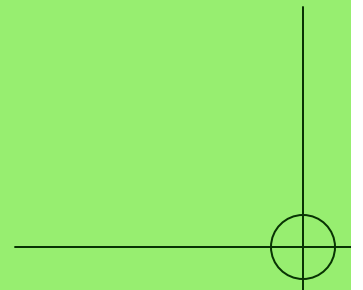
## Recycled Glass Tile





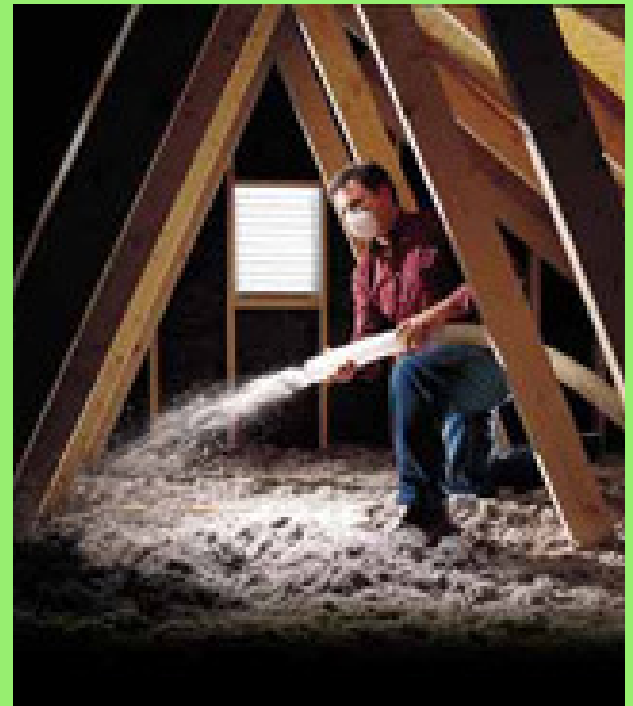
# Insulation

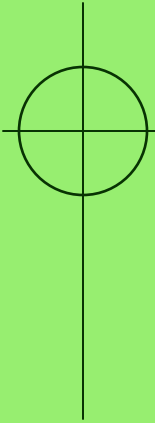
- Blown Cellulose Insulation
- Cotton Insulation



# Insulation

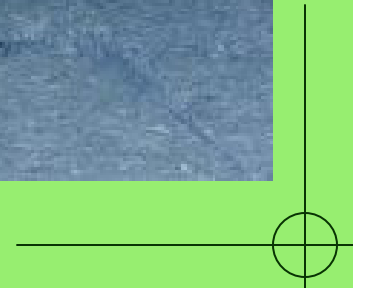
## Blown Cellulose Insulation





# Insulation

## Cotton Insulation



# Resources

