

GREEN RESOURCE GUIDE

the
green
house

NEW DIRECTIONS
IN SUSTAINABLE
ARCHITECTURE & DESIGN

NATIONAL BUILDING MUSEUM • WASHINGTON, DC
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Have you ever thought about living in a “green” house, one that is healthy for you and your family and helps conserve the Earth’s resources?

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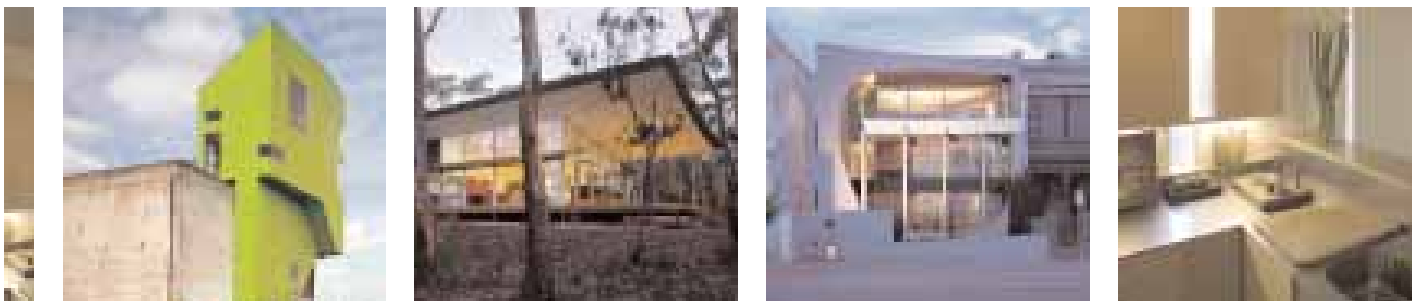
Principles of Sustainability

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Innovative Green Building Products



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introduction



Whether you are building a new home, renovating an existing one, or looking to make a few changes in your living habits, every household can incorporate features that support the conservation of the environment and improve our quality of life. As environmental concerns continue to mount worldwide, integrating more sustainable practices and products into our lives becomes increasingly important. There is growing popular interest in green living and the possibilities for achieving it in our homes are rapidly expanding. Because buildings consume enormous quantities of the Earth's resources in their construction and daily operation, they represent tremendous opportunities for innovative eco-friendly design as well as cost savings. *The Green House* demonstrates the emerging collaboration between

stylish architecture, interior design, and environmental responsibility. **Home is where going green begins—where we as individuals have the power to set a new course for a more sustainable future.**

five principles of sustainability

Optimizing Use of the Sun

Most of us rely on oil, coal, natural gas, and other fossil fuels to heat and cool our homes. Not only are these resources expensive and polluting, they are also being rapidly depleted. A simple and cost-effective alternative is to plug your house into the sun by either active or passive strategies.

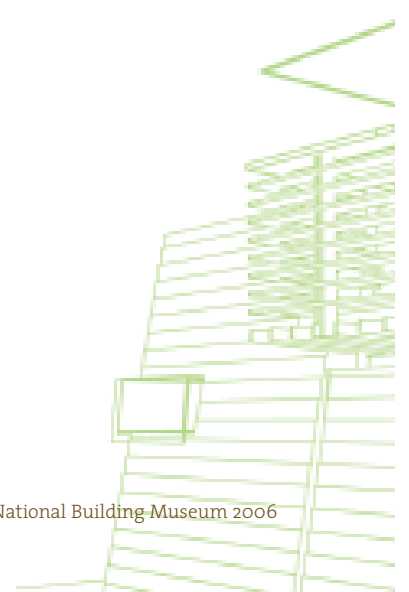
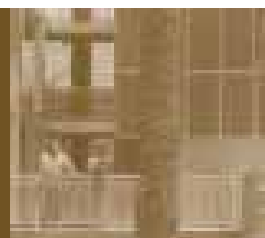
Active strategies use solar panels that turn the sun's heat into energy.

Adopting passive strategies means doing some of the following:

- ➔ Design and orient the house to minimize summer afternoon solar heat gain and optimize winter solar heat gain. In the northern hemisphere, this means orienting the long sides of the house to face south and north and creating roof overhangs and landscaping that shade the east, south, and west sides of the house.
- ➔ Situate the house to take advantage of prevailing breezes during the spring, summer, and fall. Not only are these breezes valuable for cross-ventilation in the house, but they can make screened-in rooms and porches more comfortable places to live.
- ➔ Plant shade trees and shrubs around your house. In summer, well-placed foliage helps keep the house cool, while bare branches in winter let the sunlight through to warm the house.

The world's oil reserves are expected to last about 40 more years. Natural gas reserves may last 67 years. The sun's energy supply will last billions of years.

smart move Join thousands of others in turning to solar energy as a renewable, clean, and cost saving alternative to fossil fuels.



Improving Indoor Air Quality

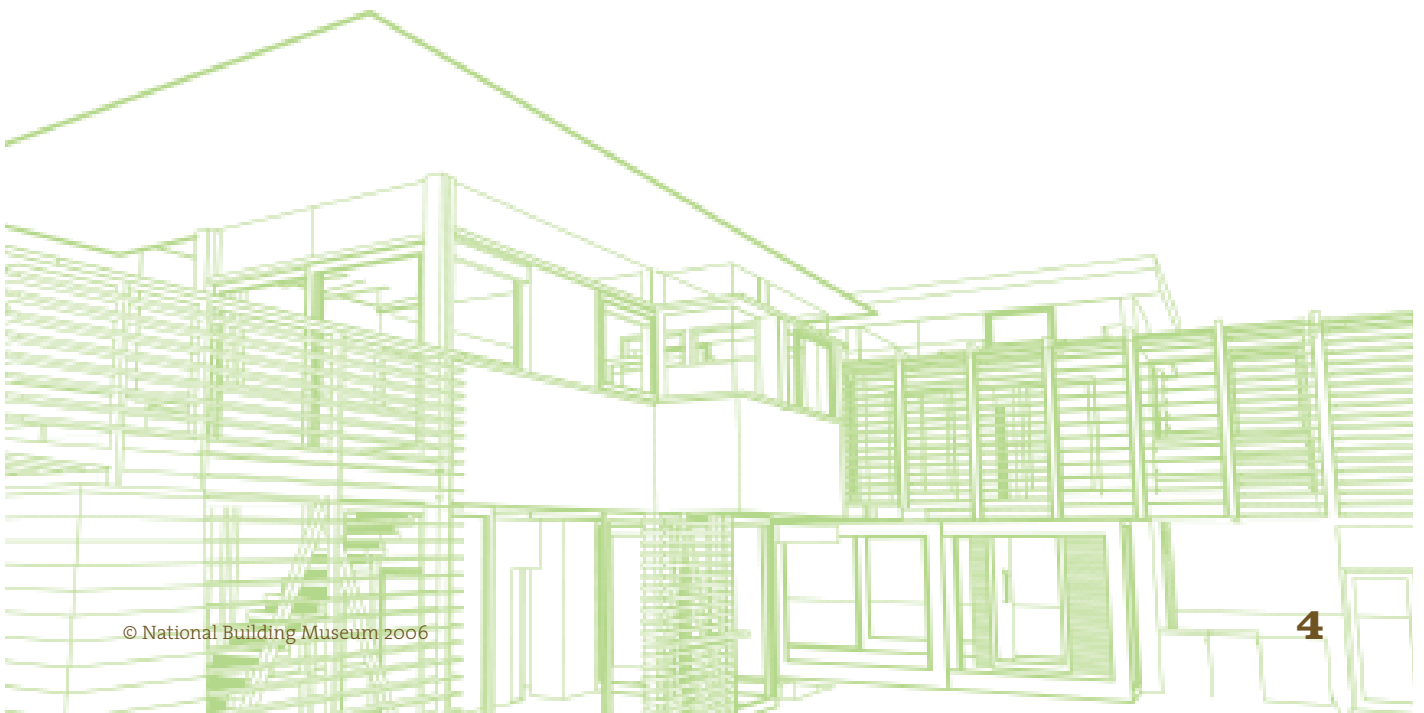
Americans spend up to 90 percent of their time indoors where air quality can be more polluted than outdoors. Pollutants range from toxins, such as asbestos and formaldehyde found in building materials, to allergens such as mold, mildew, fungus, bacteria, and dust mites. The negative effects of these pollutants may cause health problems upon initial exposure or even many years later.

There are measures that can be taken to improve indoor air quality:

- ➔ Choose ventilation systems that remove dirt, dust, moisture, humidity, and pollutants.
- ➔ Seal off the garage from the house to eliminate fumes from cars and lawn mowers.
- ➔ Select materials, such as those without formaldehyde, that limit off-gassing, have minimal or no toxic properties, and do not shed dust or fiber.
- ➔ Test your home for toxins that influence air quality with a do-it-yourself kit or hire a specialist.
- ➔ Use the exhaust fan over your stove to remove gases like carbon monoxide. Use fans in the bathroom to remove water vapors that can cause molds to grow.

Indoor air pollution consistently ranks among the top five environmental risks to public health.

smart move Improve air quality in your home by increasing ventilation, choosing non-toxic materials, and using air filters to remove up to 95% of airborne pollutants.



Using the Land Responsibly

You can create a sustainable house by making good use of the land your house sits on and by considering the impact of the house on the surrounding environment. When looking to buy a new home, consider the following advantages:

- ➔ Buy a smaller, more compact house on a lot that is located near work, public transportation, and community services to save fuel and money.
- ➔ Choose a neighborhood where houses are clustered closer together, leaving more open space for residents to enjoy and helping to preserve the natural landscape.
- ➔ Adopt smart gardening practices like using organic pesticides and composts, as well as native plants that do not require extensive irrigation systems.
- ➔ Use landscaping rather than paved surfaces, which impede storm water infiltration, often resulting in the contamination of local water sources.

Every year
sprawling
development
engulfs
1 million
acres of
open space.

smart move Vote to conserve wilderness areas and support one of the 240 anti-sprawl initiatives across America.

Creating High-Performance and Moisture-Resistant Houses

The roof, walls, windows, and doors of a house create an envelope that protects residents from the weather and intruders, including pests, noise, and dirt. It also controls the entry of sunlight and, most importantly, helps maintain indoor comfort. Maintaining a constant level of comfort is often wasteful and expensive but can be done efficiently and economically by the following means:

- ➔ Create a building envelope with more durable and energy-efficient materials that reduce drafts, balance room temperatures, control moisture, and save on heating and cooling costs.
- ➔ Seal any gaps or cracks where moisture can get in and heat or cooling can leak out.
- ➔ Schedule a home energy audit. Many utilities offer them for free and the expert advice can result in big energy savings.

According to recent estimates, the United States consumes more energy than any other nation, accounting for 22.8% of the world's total energy use. Nearly one quarter of that share is used to power our homes.

smart move By sealing air leaks and using energy-efficient technologies in your home, you can significantly reduce your energy consumption and cut your bills by up to 80%.



Wisely Using the Earth's Natural Resources

The earth provides us with a finite amount of natural resources and it is our responsibility to make them last. It is also up to us to use these resources in ways that are not detrimental to the environment or our health.

With the mainstreaming of sustainable design has come a dramatic increase in new green materials and products. Such green materials create houses that are good for their occupants' health and bank accounts, as well as the environment. Whether building a new house or apartment or renovating an existing one, green materials are essential. By building, renovating, and equipping your home with green materials, you can preserve natural resources such as old-growth forests and fresh water systems. Selecting green materials typically involves an assessment of a product's environmental impact over its life cycle. This process tracks the raw materials used to make a product; its manufacturing process; its transportation; its performance when it is used; and its disposal, reuse, or recycling options. When choosing materials and products look for:

➔ **High levels of:**

Renewability

Reusability

Durability

➔ **Low levels of:**

Embodied energy, the energy required to extract, process, and transport materials

Environmental impact, the negative effects on outdoor and indoor environments

**Less than 20%
of the world's old
growth forests
remain today.**

smart move By choosing wood products certified by the international Forest Stewardship Council, you can help ensure that our ancient forests don't disappear. Visit www.fsc.org for more information.

green terms & ideas

Prefabricated: Standardized building sections that are created in a factory to be shipped and assembled in another location.

Footprint: Land area taken up by a building.

Energy Smart: Meeting your energy needs cost effectively and with the least impact on the environment.

Fossil Fuels: Carbon-rich deposits in the earth, such as petroleum (oil), coal, or natural gas, derived from the remains of ancient plants and animals and used for fuel.

Photovoltaic cell: A device that converts sunlight into electricity.

Sustainability: Meeting the needs of the present without depleting resources or harming natural cycles for future generations.

Off-gassing: The release of gas into the air from products treated with chemicals during their manufacture.

Envelope: The skin of a building—including the windows, doors, walls, foundation, basement slab, ceilings, roof, and insulation—that separates the interior of a building from the outdoor environment.

Renewable Energy: Energy derived from sources that do not deplete natural resources. Examples include solar, wind, and geothermal energy from the Earth's core.

Geothermal energy: Heat that comes from the Earth's interior.

Radiant Heating: An efficient heating system that warms cold objects, which then radiate heat into the surrounding space evenly.

Off-the-Grid: A term used to describe a system that runs on renewable energy sources independent of a conventional public utility grid.

Renewability: Choose natural materials that are rapidly renewable such as fast-growing trees and agricultural products.

Reusability: Seek out products that can be reused or recycled once they are no longer needed or operable.

Durability: Select products that are long-lasting and require little maintenance.

Embodied energy: Consider how much energy was required to extract, process, package, transport, install, and recycle or dispose of materials that make up your home. Up to 70% of the total energy invested in a building's construction is embodied in the materials themselves.

Environmental impact: Avoid materials that pollute the environmental quality inside your home and damage the outdoor environment and atmosphere.

ratings and certifications

Environmental Ratings and Certifications are international programs that have established sustainability and efficiency standards for buildings and products.

Cradle-to-cradle

Cradle-to-cradle is a certification system, established by architect William McDonough, which evaluates products by measuring positive impacts on the environment, human health, and social equity. The term is also a philosophy based on the idea that products should be designed so that when they are no longer useful, they provide fuel for new products or natural cycles, eliminating waste.

www.mcdonough.com/cradle_to_cradle.htm

ENERGY STAR

The ENERGY STAR program, managed by the Environmental Protection Agency (EPA) and the Department of Energy (DOE), has proven to be an effective tool to help consumers choose energy-efficient products for their homes, preserving natural resources and lessening greenhouse gas emissions, as well as reducing consumers' energy bills. ENERGY STAR labels can be found on appliances, televisions, heating and cooling equipment, electronics, and even new homes. A product or home with the ENERGY STAR label means that it meets the efficiency guidelines set by the EPA and the DOE.

With the use of ENERGY STAR certified appliances, homes, and non-residential buildings, Americans saved 150 billion kilowatt hours of electricity in 2005, or four percent of the national electricity demand. They also reduced greenhouse gas emissions equivalent to the amount generated every year by approximately 23 million gasoline-powered cars. Energy-efficient consumers also save money; ENERGY STAR households have been found to save up to 30 percent annually on their energy bills.

www.energystar.gov

Forest Stewardship Council (FSC)

The Forest Stewardship Council (FSC) is an independent, non-profit organization that promotes voluntary, third party certification of sustainably-managed forests. FSC "certifiers" evaluate forests based on management practices in three areas: sustainable harvest, ecosystem health, and community benefits. Scientists and foresters examine and measure the impact of forest practices on wildlife and their habitat, water quality, soil and plant conservation, natural forest sustainability and biodiversity, visual aesthetics, and the total ecological integrity of the forest. The FSC logo on a product provides consumers with an assurance that the wood they use comes from forests managed in an environmentally and socially responsible manner.

www.fscus.org

GREENGUARD Certification Standards for Low Emitting Products for the Indoor Environment

The Greenguard Environmental Institute (GEI) is a non-profit organization that has established performance-based standards to identify the emissions levels of products typically used inside the home. During the testing process, products are placed in a sealed chamber through which purified air is poured. The resulting exhaust is then tested for various pollutants including formaldehyde, volatile organic chemicals, respirable particles, and carbon monoxide. If the emissions levels are below a certain level, products can qualify for Greenguard certification. Products that can be tested include building materials, furniture, cleaning and maintenance products, electronic equipment, and personal care products.

www.greenguard.org

LEED® (Leadership in Energy and Environmental Design) Green Building Rating System™

LEED was developed by the U.S. Green Building Council (USGBC) as a voluntary national standard for developing high-performance, sustainable buildings. LEED emphasizes state-of-the-art strategies for sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. LEED recognizes achievements and promotes expertise in green building through a comprehensive system offering project certification, professional accreditation, training and practical resources.

www.usgbc.org

National Association of Homebuilders

The National Association of Home Builders' Model Green Home Building Guidelines are designed to move environmentally friendly home building concepts further into the mainstream marketplace. Using these model guidelines, local home builder associations create voluntary programs that include fundamental green building principles, which reflect local geographic conditions or preferences. The guidelines' six main topic areas include lot preparation and design, resource efficiency, energy efficiency, water efficiency and conservation, occupant comfort and indoor environmental quality.

www.nahb.org/gbg

Rainforest Alliance Certification

Rainforest Alliance certification is a process that promotes and guarantees improvements in agriculture, forestry, and travel. Goods and services with their certification are ensured to have been produced in compliance with guidelines created to protect the environment, wildlife, workers, and local communities.

www.rainforest-alliance.org



green materials and products

Materials used in the design of *The Green House* exhibition

Benjamin Moore® Premium Latex Paint

COLORS: #426 Fresh Grass, #623 Deep Sea, #552 Pleasant Grove, #705 Sioux Falls, #HC-118 Sherwood Green, #739 Un-teal we meet again, #525 Savannah Shade, #581 Floradale Isle
FINISH: Flat

MANUFACTURER: Benjamin Moore & Co.
Gift of the manufacturer
www.benjaminmoore.com

All Benjamin Moore® paints listed throughout this Guide are exclusively available at your local Benjamin Moore® store.

Plyboo bamboo plywood

FINISH: Amber
MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.plyboo.com

Edipo cork plank flooring

COLORS: Charcoal, grieger, infinity blue, bleach, primavera, red terracotta
MANUFACTURER: Duro-Design
www.duro-design.com

Bamboo flooring

COLORS: Cinnamon red, mountain white, foundation brown, amber
MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.plyboo.com

FLOR House Pet carpet tiles

COLOR: Frog
MATERIALS: Polyester and nylon
DESIGNER AND MANUFACTURER: Interface, Inc.
www.interfaceinc.com
Special thanks to Apartment Zero, Washington, D.C., www.apartmentzero.com

Entropy carpet tiles

COLOR: Chameleon
MANUFACTURER: Interface, Inc.
www.interfaceinc.com

Dakota Burl™ composite board

MATERIAL: Agricultural waste
MANUFACTURER: Environ Biocomposites™, LLC
www.environbiocomposites.com

Strata and Solo Clear ECOresin™

MANUFACTURER: 3form, Inc.
www.3-form.com

Permeable interlocking concrete pavement

MATERIALS: Portland cement
MANUFACTURERS: Balcon, an Oldcastle Company
Gift of the manufacturer with support from the Interlocking Concrete Pavement Institute and the Portland Cement Association
www.balcon.biz, www.icpi.org,
www.cement.org

Furniture and products featured in Glidehouse™ interior

Lokseam standing metal roof

COLOR: Tundra

MANUFACTURER: MBCI Metal Roof and Wall Systems
Gift of the manufacturer
www.mbc.com

PBC wall panels/siding

COLOR: Sandstone Metallic

MANUFACTURER: MBCI Metal Roof and Wall Systems
Gift of the manufacturer
www.mbc.com

Brasilia™ wood composite decking

COLOR: Burnished Amber

MATERIALS: Reclaimed wood and plastic
MANUFACTURER: TreX Company, Inc.
Gift of the manufacturer
www.trex.com

Interlocking concrete pavement

MATERIALS: Portland cement

MANUFACTURERS: Balcon, an Oldcastle Company
Gift of the manufacturer with support from the Interlocking Concrete Pavement Institute and the Portland Cement Association
www.balcon.biz, www.icpi.org,
www.cement.org

SCRAPILE Dining Table

MATERIALS: Repurposed scrap wood

DESIGNER AND MANUFACTURER: Carlos Salgado and Bart Bettencourt for SCRAPILE
Gift of the designer and manufacturer
www.scrapile.com

Twig bench

MATERIALS: Coppiced hazel wood

DESIGNER AND MANUFACTURER: Russell and John Pinch for PINCH Design
Gift of the designer and manufacturer
www.pinchdesign.com

Giro stool

COLOR: Tomato

MATERIALS: Bamboo with lacquer finish
DESIGNER: Ekobo®
www.ekobo.org

Modern Birdhouses™ Richard Neutra style birdhouse

MATERIALS: Sustainably-harvested teak, aluminum, stainless steel
DESIGNER: Dail Dixon for Wieler Holdings, LLC
www.modernbirdhouses.com

bambu veneerware

MATERIALS: Organically-grown bamboo
MANUFACTURER: bambu, llc
www.bambuhome.com

Candleloo lamps

MATERIALS: Plastic, rechargeable batteries
DESIGNERS: Duane Smith and Stephan Barbeau
www.vesselinc.com

Products and materials used throughout Glidehouse™

Benjamin Moore® Paint

Eco Spec® low-VOC Latex

COLOR: #OC-64 Pure White

FINISH: Flat

MANUFACTURER: Benjamin Moore & Co.
Gift of the manufacturer
www.benjaminmoore.com

Bamboo flooring

COLOR: Amber

MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.plyboo.com

400 Series Awning Windows, 400 Series Skylight, 400 Series Sliding Glass Doors

MATERIALS: Wood clad terratone with High Performance™ Low E tempered glass
MANUFACTURER: Andersen Corporation
www.andersenwindows.com

Furniture and products in Glidehouse™ Living Room

FLOR Terra™ carpet tiles

COLOR: FURROWS

DESIGNER AND MANUFACTURER: Interface, Inc.

www.interfaceinc.com

Special thanks to Apartment Zero,
Washington, D.C., www.apartmentzero.com

Boston lounge sofa

MATERIALS: Cotton, maple frames, water based glue

DESIGNER AND MANUFACTURER: Donna Halloran for
Furniture™

Gift of the designer and manufacturer
<http://shop.store.yahoo.com/furnitureonline>

Messenger upholstery fabric

COLOR: Balsa

MATERIALS: 78% post-industrial recycled polyester

DESIGNER AND MANUFACTURER: Maharam

Gift of the designer and manufacturer
www.maharam.com

Risom lounge chairs

MATERIALS: Maple and natural cotton webbing

DESIGNER: Jens Risom

MANUFACTURER: Knoll, Inc.

Gift of the manufacturer
www.knoll.com

Knock-Down/Drag-Out chair

MATERIALS: Maple plywood with Chinese red finish

DESIGNER AND MANUFACTURER: Christopher Douglas
for Material Furniture, Inc.

Gift of the designer and manufacturer
www.materialfurniture.com

Flipper Screen

MATERIALS: Maple plywood with
black walnut finish

DESIGNER AND MANUFACTURER: Christopher Douglas
for Material Furniture, Inc.

Gift of the manufacturer
www.materialfurniture.com

Gotham Rocker

MATERIALS: Sustainably-certified European
Beech with clear finish, automobile seat belt
material remnants

DESIGNER AND MANUFACTURER: Peter Danko Design

Gift of the designer and manufacturer
www.peterdanko.com

Mucci coffee table

MATERIALS: ECOresin™, steel

DESIGNER: K_now designers

MANUFACTURER: 3form, Inc.

Gift of the manufacturer
www.3-form.com

Giro stool

COLOR: Kiwi

MATERIALS: Bamboo with lacquer finish

DESIGNER AND MANUFACTURER: Ekobo

www.ekobo.org

W Magazine Stand

MATERIALS: Molded plywood

DESIGNER AND MANUFACTURER: OFFI & Company

www.offi.com



Furniture and products in Glidehouse™ Kitchen / Dining Area

Madrid cabinets

COLOR: Honey Maple

MATERIALS: Solid maple, plywood, maple veneer

MANUFACTURER: Brighton Cabinetry, Inc.

Gift of the manufacturer

www.brightoncabinetry.com

Richlite® countertop

MATERIALS: Paper fiber composite and recycled content

MANUFACTURER: Richlite Company

Gift of the manufacturer

www.richlite.com

NES Series Electric 4-burner cooktop

COLOR: Black

MANUFACTURER: Bosch home appliances

Gift of the manufacturer

www.boschappliances.com

All Bosch home appliances listed throughout this guide may be purchased at retailers nationwide.

Downdraft ventilation system

MATERIALS: Stainless steel

MANUFACTURER: Bosch home appliances

Gift of the manufacturer

www.boschappliances.com

700 Series Single convection oven

MATERIALS: Stainless steel

MANUFACTURER: Bosch home appliances

Gift of the manufacturer

www.boschappliances.com

Integra™ 800 Series dishwasher

MATERIALS: Stainless steel

MANUFACTURER: Bosch home appliances

Gift of the manufacturer

www.boschappliances.com

Evolution™ refrigerator

MATERIALS: Stainless steel

MANUFACTURER: Bosch home appliances

Gift of the manufacturer

www.boschappliances.com

Poise™ single-basin undercounter kitchen sink with Coralais® Decorator single-control pullout spray kitchen sink faucet

MATERIALS: Stainless steel

DESIGNER AND MANUFACTURER: Kohler Co.

www.kohler.com

Helios pendant lamps

MATERIALS: Hand-blown glass, aluminum, bamboo

DESIGNER AND MANUFACTURER: Jeffery Goodman

for jGoodDesign

Gift of the designer and manufacturer

www.jgooddesign.com

Arbor dining room chairs

MATERIALS: Sustainably certified European Beech with clear finish, automobile seat belt material remnants

DESIGNER AND MANUFACTURER: Peter Danko Design

Gift of the designer and manufacturer

www.peterdanko.com

Did you know?

American buildings account for:

2/3 of U.S. electricity consumption

1/3 of U.S. energy use

30% of U.S. greenhouse gas emissions

1/8 of U.S. potable water use

2.8 pounds per person everyday of U.S. construction and demolition waste

40% of global raw materials use (3 billion tons/yr)

The average American home consumes:

13,127 ft of framing lumber

6,212 ft of sheathing (OSB, plywood, etc)

13.37 tons of concrete

2335 sq ft of exterior siding

6144 sq ft of interior wall materials (sheetrock)

3100 sq ft of roofing material

SOURCE: The National Association of Homebuilders

Knock-Down/Drag-Out table

MATERIALS: Maple plywood with natural finish
DESIGNER AND MANUFACTURER: Christopher Douglas
for Material Furniture, Inc.
Gift of the designer and manufacturer
www.materialfurniture.com

Europa barstools

MATERIALS: Maple with ebony stain, stainless steel
DESIGNER AND MANUFACTURER: Peter Danko Design
Gift of the designer and manufacturer
www.peterdanko.com

Forest Leaf Collection candlesticks

MATERIALS: Recycled cast aluminum and
beeswax candle
DESIGNER AND MANUFACTURER: Michael Aram
www.michaelaram.com

Flatware utensils

MATERIALS: Organically grown bamboo with
food safe oil finish
DESIGNER AND MANUFACTURER: bambu, LLC
www.bambuhome.com

Cho condiment dishes with spoons

COLORS: Kiwi and Lime
MATERIALS: Bamboo with lacquer finish
DESIGNER AND MANUFACTURER: Ekobo
www.ekobo.org

Plato tray

COLOR: White
MATERIALS: Bamboo with lacquer finish
DESIGNER AND MANUFACTURER: Ekobo
www.ekobo.org

Tempo platter

COLOR: Ash blue
MATERIALS: Bamboo with lacquer finish
DESIGNER AND MANUFACTURER: Ekobo
www.ekobo.org

Branch Vidreco carafe and tumblers

MATERIALS: Recycled glass
DESIGNERS: La Mediterranea
www.la-mediterranea.com

TranSglass vase

MATERIALS: Reclaimed glass wine bottle
DESIGNERS: Emma Wölfenden and
Tord Boontje
MANUFACTURER: Artecnic
www.tordboontje.com

Schaschlik knife block

MATERIALS: Yellow pine and bamboo skewers
DESIGNER AND MANUFACTURER: Martin Robitsch
www.greenergrassdesign.com

**FR300 multi-purpose radio with
hand-crank power generator**

MATERIALS: Plastics
DESIGNER AND MANUFACTURER: Etón Corporation
www.etoncorp.com

Foundling Rabbit

MATERIALS: 100% organic cotton
DESIGNER AND MANUFACTURER: Hugg-A-Planet
www.huggaplanet.com

LooLo blanket

MATERIALS: Certified organic cotton, Climatex
Lifestyle™ yarns
DESIGNER AND MANUFACTURER: Joanna Notkin for
LooLo Textiles
www.loolo.ca

Solar voltaic backpack

MATERIALS: 840D nylon, UV-resistant
polyurethane, nylon mesh
DESIGNER AND MANUFACTURER: Voltaic Systems, Inc.
www.voltaicsystems.com

WABI shoes

MATERIALS: Thermoplastic elastomers (TPE)
recyclable material with inner sock and
coconut fiber insole
DESIGNER AND MANUFACTURER: Camper
www.camper.com

Huggy sports balls

MATERIALS: Natural flocked foam rubber
DESIGNER AND MANUFACTURER: Hooray LLC
www.huggybuggy.com

Stapleless stapler

MATERIALS: Plastic
DESIGNER AND MANUFACTURER: Walter Windisch

Recycled pencils and pens

MATERIALS: Recycled wood, currency, plastic,
paper, denim, biodegradable ink

Eco-friendly note cards

MATERIALS: Lokta plant fiber and recycled paper
MANUFACTURER: Waste Not Paper Company
www.wastenotpaper.com

Furniture and products in Glidehouse™ Bathroom

Madrid cabinets

COLOR: Honey Maple

MATERIALS: Solid Maple, plywood, maple veneer

MANUFACTURER: Brighton Cabinetry, Inc.

Gift of the manufacturer

www.brightoncabinetry.com

Richlite® countertop

MATERIALS: Paper fiber composite and recycled content

MANUFACTURER: Richlite Company

Gift of the manufacturer

www.richlite.com

Traffic Tread recycled glass floor tile

COLOR: Charcoal

DESIGNER AND MANUFACTURER: Terra Green Ceramics

Gift of the designer and manufacturer

www.terragreenceramics.com

Axxis™ washer and Axxis vented dryer

COLOR: White

MANUFACTURER: Bosch home appliances

Gift of the manufacturer

www.boschappliances.com

Timpani Vessels countertop lavatory with Falling Water® wall-mount lavatory faucet

MATERIALS: Stainless steel in satin finish

DESIGNER AND MANUFACTURER: Kohler Co.

www.kohler.com

San Raphael™ Power Lite one-piece toilet with Twin-Touch Actuator

COLOR: White

DESIGNER AND MANUFACTURER: Kohler Co.

www.kohler.com

ShaktaSTONE soap dish

MATERIALS: Recycled paper

DESIGNER AND MANUFACTURER: Stanley J. Shetka for ShetkaSTONE

www.shetkastone.com

Thrash Can

MATERIALS: Recycled tires, recycled plastic, aluminum

DESIGNER AND MANUFACTURER: Normal Design, LLC

www.normalstuff.net

Products in Glidehouse™ Mechanical Room / Insulation Cutaways

High Velocity Soft Air HVAC system

MANUFACTURER: Select Mechanical and Design

Gift of the manufacturer

www.selectmds.com

AquaStar 250SX Tankless Water Heater

MANUFACTURER: Bosch Water Heating

Gift of the manufacturer

www.boschusa.com

HTP-1 Hi-Temp Supply Panel

MANUFACTURER: HPS Controls

Gift of the manufacturer

www.hpscontrols.com

The Icynene Insulation System®

Spray-in place formula

MANUFACTURER: Icynene®

Gift of Insealators of Maryland and Virginia

www.icynene.com

Fiber optics lighting system

MANUFACTURER: Band, Inc.

Gift of the manufacturer

www.bandinc.net

SP-200 Sun-Pure photo-catalytic air purification system

MANUFACTURER: Ultra-Sun Technologies

Gift of the manufacturer

www.ultrasun.com

Ceiling Finishes

Beargrass *ECO*resin™ panel

MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

Benjamin Moore® paint

Eco Spec® low-VOC Latex

COLOR: #1459 Metro Gray
FINISH: Flat
MANUFACTURER: Benjamin Moore & Co.
Gift of the manufacturer
www.benjaminmoore.com

Natural clay plaster with mica finish

COLOR: Lake Tahoe
MANUFACTURER: American Clay Enterprises
Gift of the manufacturer
www.americanclay.com

Recycled agricultural waste composite board

STAIN: Rose wood
MANUFACTURER: PrimeBoard, Inc.
www.primeboard.com

Natural clay plaster

COLOR: Moab Tuscan Gold Blend 2
MANUFACTURER: American Clay Enterprises
Gift of the manufacturer
www.americanclay.com

Baltico cork wall tile

COLOR: Emerald Green
MANUFACTURER: Duro-design
www.duro-design.com

Natural clay plaster with float finish

COLOR: Dakota red
MANUFACTURER: American Clay Enterprises
Gift of the manufacturer
www.americanclay.com

Plyboo 1/8" flat grain bamboo plywood

COLOR: Amber
MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.plyboo.com

Barriga cork wall tile

COLOR: Marble white
MANUFACTURER: Duro-design
www.duro-design.com

Benjamin Moore® paint

Eco Spec® low-VOC Latex

COLOR: #HC105 Rockport Gray
FINISH: Flat
MANUFACTURER: Benjamin Moore & Co.
Gift of the manufacturer
www.benjaminmoore.com

***ECO*resin™ panel with matte finish**

COLOR: Pure Silver
MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

Wall Finishes

3-D V2 recycled wallpaper

COLOR: White
MANUFACTURER: MIO Co, LLC
Gift of the manufacturer
www.mioculture.com

Natural clay plaster with troweled finish

COLOR: Santa Barbara verde
MANUFACTURER: American Clay Enterprises
Gift of the manufacturer
www.americanclay.com

Recycled fabric wall covering

COLOR: Salmon river
MANUFACTURER: Sina Pearson Textiles
Gift of the manufacturer
www.sinapearson.com

Dakota Burl™ agricultural waste composite board

COLOR: Red stain
MANUFACTURER: Environ Biocomposites™, LLC
www.environbiocomposites.com

Edipo cork wall covering

COLOR: Azure
MANUFACTURER: Duro-design
www.duro-design.com

Abaca textile wall covering

COLOR: Bisque
MANUFACTURER: Maharam
Gift of the manufacturer
www.maharam.com

**Benjamin Moore® paint
Eco Spec® low-VOC Latex**

COLOR: #310 Popcorn Kernel
FINISH: Flat

MANUFACTURER: Benjamin Moore & Co.
Gift of the manufacturer
www.benjaminmoore.com

ECOverings ECO-Gres™ tile

COLOR: Tiffany white
MATERIAL: Porcelain

MANUFACTURER: COVERINGS ETC.
Gift of the manufacturer and
Amicus Green Building Center
www.amicusgreen.com

Plexwood

COLOR: Birch

MANUFACTURER: Plexwood
Gift of the manufacturer
www.plexwood.nl

Innvironments® Eco-Suede wall covering

COLOR: Hickory

MANUFACTURER: Innovations in Wallcoverings, Inc.
Gift of the manufacturer
www.innovationsusa.com

**Innvironments® paper-weave six-by-six
wall covering**

COLOR: Silverweed

MANUFACTURER: Innovations in Wallcoverings, Inc.
Gift of the manufacturer
www.innovationsusa.com

Recycled glass tile

COLOR: Mosaic Ice Blend
MANUFACTURER: Sandhill Industries

Gift of the manufacturer
www.sandhill.com

Counter Finishes

IceStone® recycled glass and concrete countertop

COLOR: Forest Fern

MANUFACTURER: IceStone Durable Surfaces
Gift of the manufacturer
www.icestone.biz

**ALKEMI resin and recycled aluminum
countertop**

COLOR: Natural 10

MANUFACTURER: Renewed Materials, LLC
Gift of the manufacturer
www.renewedmaterials.com

Thatch ECOresin™ panel

MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

Recycled paper composite

COLOR: Grey

MANUFACTURER: PaperStone™
Gift of the manufacturer

Recycled composite countertop material

COLOR: Indigo

MANUFACTURER: Richlite Company
Gift of the manufacturer
www.richlite.com

Recycled glass tile

COLOR: Mosaic Ice Blend

MANUFACTURER: Sandhill Industries
Gift of the manufacturer
www.sandhill.com

Cabinet Finishes

Recycled agricultural waste composite

MANUFACTURER: PrimeBoard, Inc.

Gift of the manufacturer
www.primeboard.com

**Dakota Burl™ agricultural waste
composite board**

STAIN: Dark grey

MANUFACTURER: Environ Biocomposites™, LLC
www.environbiocomposites.com

Kirei sorghum composite board

MANUFACTURER: Kirei USA

Gift of the manufacturer
www.kireiusa.com

**Dakota Burl™ agricultural waste
composite board**

STAIN: Natural

MANUFACTURER: Environ Biocomposites™, LLC
www.environbiocomposites.com

Strata ECOresin™ panel

COLOR: Agate

MANUFACTURER: 3form, Inc.
Gift of the manufacturer
www.3-form.com

Plyboo bamboo plywood

COLOR: Natural

MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.plyboo.com

Not all Bamboo is the same

Bamboo has become a very popular “green” material in recent years. It is often labeled as sustainable because it is a fast growing grass—not wood—that can be harvested in a few years instead of several generations for most wood species. But it is worthwhile to also consider some other factors when selecting bamboo as a sustainable and healthy choice for your home.

Out of the over 1,200 species of bamboo in existence, the Moso bamboo species (*Phyllostachys h. pubescens*) is the optimal choice for use in plank floors. The bamboo should be properly aged and only the middle section of each stalk should be used to ensure appropriate strength and moisture content. Some bamboo plantations still use pesticides, chemical fertilizers, and other methods that endanger the local ecosystem and workers. And some may use glues and sealants that off-gas into your room, impacting your family’s health. As well, they may not use precision milling to ensure proper construction and long-term performance and may not dry the bamboo appropriately. Check to see if the bamboo supplier you choose visits the plantation regularly for quality control and to minimize milling defects. Finally, consider also the bamboo’s embodied energy, which is affected by the resources utilized during its travel from plantation to your home.

When shopping for bamboo flooring, inquire about the species, harvesting site and practices, other materials used in manufacturing, and production practices to ensure your choice is of good quality and is a truly sustainable product.

Floor Finishes

DuraPalm® mature coconut flooring

MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.durapalm.com

Green with Envy modular carpet tile in style ‘Ducks in a Row’

COLOR: Pond
MATERIALS: nylon fiber yarn, 100% PVC-free recyclable backing system with recycled content
MANUFACTURER: Shaw Industries, Inc.
Gift of the manufacturer
www.shawfloors.com

Vertical grain bamboo plank flooring

COLOR: Amber
MANUFACTURER: Smith & Fong Plyboo®
Gift of the manufacturer
www.plyboo.com

Marmoleum®

MANUFACTURER: Forbo Flooring
Gift of the manufacturer and Amicus Green Building Center, LLC
www.themarmoleumstore.com
www.amicusgreen.com

FLOR House pet carpet tile

COLOR: Frog
MANUFACTURER: Interface, Inc.
www.interfaceinc.com

EnviroPLANK terrazzo plank flooring

COLOR: Pewter with Enviroblue size #1 aggregate
MANUFACTURER: EnviroGLAS Products, Inc.
Gift of the manufacturer
www.enviroglasproducts.com

Recycled aluminum tiles

MANUFACTURER: Eco-Friendly Flooring, Inc.
Gift of the manufacturer
www.ecofriendlyflooring.com

Edipo cork flooring

COLOR: Greige
MANUFACTURER: Duro-design
www.duro-design.com

Java coir and sisal carpet tiles

COLOR: Cloud
MANUFACTURER: Tasibel
Gift of sisalcarpet.com
www.sisalcarpet.com

FLOR Entropy carpet tiles

COLOR: Change

MANUFACTURER: Interface, Inc.

www.interfaceinc.com

ECO-pave recycled rubber flooring

COLOR: Slate

MANUFACTURER: Dodge-Regupol, Inc.

Gift of the manufacturer

www.regupol.com

ECOverings ECO-Gres™ tile

COLOR: Gardenia

MATERIAL: Porcelain

MANUFACTURER: COVERINGS ETC.

Gift of the manufacturer and

Amicus Green Building Center

www.amicusgreen.com

Other samples in resource room

Benjamin Moore® paint

Eco Spec® low-VOC Latex

COLOR: #425 Lime Twist

FINISH: Flat

MANUFACTURER: Benjamin Moore & Co.

Gift of the manufacturer

www.benjaminmoore.com

Concrete roof tile

MANUFACTURER: MonierLifetile

Gift of the Tile Roof Institute

www.tilerroofing.org

Fabric and paper swatches with natural fibers, recycled content

MANUFACTURER: Maharam

Gift of the manufacturer

www.maharam.com

Syndecrete

COLORS: Custom brown with tempered glass chips; light grey with bourget confetti mix; wine; black with abalone shell

MANUFACTURER: Syndesis, Inc.

Gift of the manufacturer

www.syndesisinc.com

Wall systems

Light-gauge metal framing wall system with UltraTouch recycled denim insulation

EXTERIOR AND INTERIOR FINISHES: Tongue-in-groove

cedar siding and gypsum board with Maharam

Hikari textile wall covering in Umber

Gift of Amicus Green Building Center, LLC;

Lafarge North America; and Maharam

www.amicusgreen.com,

www.lafargenorthamerica.com,

www.maharam.com

Thick-walled Larsons Truss finger-jointed wood wall system

EXTERIOR AND INTERIOR FINISHES: Hardi-board

cement and gypsum board with low-VOC

interior latex paint

Gift of the Canfor Corporation; Lafarge

North America; and Benjamin Moore & Co.

www.canfor.com, www.lafargenorthamerica.com,

www.benjaminmoore.com

Insulated concrete formwork (ICF) wall system

EXTERIOR AND INTERIOR FINISHES: Concrete brick and

gypsum board with Benjamin Moore low-VOC

latex paint

MANUFACTURER: Bartley Corp., L.C. Smith Brick

Gift of the Portland Cement Association;

Concrete brick is a gift of the National Concrete

Masonry Association; Paint is a gift of

Benjamin Moore & Co.

www.forms.org, www.bartleycorp.com,

www.ncma.org, www.benjaminmoore.com

Autoclaved Aerated Concrete (AAC) units and coating system

EXTERIOR AND INTERIOR FINISHES: Stucco and acrylic

Gift of the International Masonry Institute

National Training Center

www.imiweb.org, www.aacpa.org

Precast insulated panel with imprinted exterior

MANUFACTURER: Dukane Precast, Inc.

Gift of the manufacturer with the Portland

Cement Association

www.dukaneprecast.com, www.cement.org,

www.huntvalleycontractors.com

Pilkington Profilit™ transparent thermal wall with Nanogel® Translucent Aerogel insulation

MANUFACTURER: Technical Glass Products

Gift of the manufacturer

www.fireglass.com, www.pilkington.com,

www.cabot-corp.com

18 ways to go green

- 1** Conserve energy by purchasing major appliances with an ENERGY STAR rating and by adding timers and automated thermostats to control usage. Also, consider switching to fluorescent light bulbs and adding more natural lighting with additional windows or skylights.
- 2** Repair leaky fixtures and install low-flow showerheads and faucets.
- 3** Use water-based paints, finishes, and sealants. Some milk-based paints are also available.
- 4** Look for wall coverings that are made of paper or natural fiber, rather than synthetic materials, and printed with natural inks.
- 5** Choose carpeting, rugs, window treatments and other textiles made from natural fibers, such as cotton or wool, which are untreated and free of toxins, such as pesticides or chemical cleaners.
- 6** Ask for flooring products made from rapidly renewable resources, such as bamboo or linoleum.
- 7** Select solid woods, when possible, for furniture or cabinetry, rather than pressed woods or composites that may contain formaldehyde or other chemicals that may be toxic.
- 8** Reuse materials – such as brick, stone, glass, tile, or metal – in new and interesting ways. Old wood also can be safely treated and used for accents.
- 9** Consider the “lifecycle” of furnishings and accessories before purchasing: Are they made of materials that can be reused or recycled when the item eventually wears out or is no longer needed?



- 10** Recycle packing and shipping materials from any newly purchased items, and safely dispose of paint cans and other containers whose contents could potentially contaminate the ground or water supply.
- 11** Install lights with sensors that turn on when they detect movement and automatically turn off after a few minutes.
- 12** Do not let the water run when brushing your teeth or washing your face.
- 13** If every household in the US replaced 1 roll of 1,000 sheet bathroom tissues with 100% recyclable rolls, we could save 373,000 trees, 1.48 million cubic feet of landfill space, and 155 million gallons of water.
- 14** Scrape – don't rinse! When using a dishwasher, pre-rinsing is no longer necessary with today's technology and detergents. You may be using more water to pre-rinse than the dishwasher uses for a full wash cycle.
- 15** Check your refrigerator's seal by closing the door with a lit flashlight inside. If you see light seeping out, the door should be adjusted or the seal replaced to stop energy leaks.
- 16** Buy locally produced products and materials whenever possible to reduce additional energy use and pollution associated with transportation.
- 17** Eliminate waste by choosing products that are biodegradable or recyclable.
- 18** Look for reclaimed wood products, salvaged from older structures and certified wood harvested from sustainably managed forests.

"18 Ways to Go Green" was produced in collaboration with the American Society of Interior Designers Foundation.

resources

Green design resources

The American Institute of Architects
www.aia.org

The American Society of Interior Designers (ASID)
www.asid.org

The ASID Sustainable Design Information Center
www.asid.org/resource/Sustainable+Design+Information+Center.htm

The American Society of Landscape Architects (ASLA)
www.asla.org

Architects, Designers and Planners for Social Responsibility (ADPSR)
www.adpsr-norcal.org

Biothinking International
www.biothinking.com

EcoShack
www.ecoshack.com

Futureproof/eco-design
www.futureproofed.com

GreenBlue
www.greenblue.org

International Sustainable Design Network
www.o2.org

IDSa ECODESIGN
www.idsa.org

Sustainable Style Foundation
www.sustainablestyle.org

SlowLab
www.slowlab.net

ThinkCycle Open Collaborative Design
www.thinkcycle.org

Green building resources

World Green Building Council
www.worldgbc.org

U.S. Green Building Council (USGBC)
www.usgbc.org

Build It Green™
www.builditgreen.org

Environmental Building News - BuildingGreen, Inc.
www.buildinggreen.com

Green Roofs for Healthy Cities
www.greenroofs.org

Global Green
www.globalgreen.org

Sustainable Buildings Industry Council (SBIC) (formerly the Passive Solar Industries Council)
www.sbic.org

National Association of Homebuilders
www.nahb.org/gbg

National Association of Homebuilders Research Center
www.nahbrc.org

Portland Cement Association (PCA)
www.concretethinker.org

Energy Use and Efficiency Information

Alliance to Save Energy
www.ase.org and
www.ase.org/section/_audience/consumers/homecheckup/

Alliant Energy's PowerHouse TV
www.powerhousetv.com

The Home Energy Advisor
<http://homeenergysaver.lbl.gov>

Consumer Energy Information
www.eere.energy.gov/consumerinfo

Clean Energy Choices
www.nrel.gov/docs/fy00osti/27684.pdf

Energy Efficiency Questions and Answers
<http://crest.org/efficiency>

Database of State Incentives for Renewable Energy (DSIRE)
www.dsireusa.org

Elements of an Energy-Efficient House
www.nrel.gov/docs/fy00osti/27835.pdf

ENERGY STAR
www.energystar.gov

How to Build a Better Home
www.nrel.gov/docs/fy00osti/26582.pdf

The Most Energy-Efficient Appliances
www.aceee.org/consumer-guide/mostenef.htm

Zip Code Program for Insulation
www.oml.gov/~roofs/Zip/ZipHome.html

MySolar and Find Solar
www.mysolar.com and
www.findsolar.com

A Consumer's Guide: Get Your Power from the Sun
www.nrel.gov/docs/fy04osti/35297.pdf

Making the Most of Residential Photovoltaic Systems
www.nrel.gov/docs/fy99osti/26373.pdf

Savings from the Ground Up
www.geoexchange.org

Real Goods
www.realgoods.com

Solar Energy Industries Association
www.seia.org

Energy & Environment Building Association
www.eeba.org

American Council for an Energy Efficient Economy
www.aceee.org

Green resources for kids

EPA Environmental Kids Club
www.epa.gov/kids

Energy Information Administration Kid's Page
www.eia.doe.gov/kids

Kids site on improving home energy efficiency
www.energyhog.org

EERE Kids – Dr. E's Energy Lab
www.eere.energy.gov/kids

NRDC – Make Waves!
www.nrdc.org/makewaves

NRDC – The Green Squad
www.nrdc.org/greensquad

Environmental organizations

Beyond Pesticides

www.beyondpesticides.org

Clean Water Fund

www.cleanwaterfund.org

Earthday Network

www.earthday.net

Global Green

www.globalgreen.org

Natural Resources Defense Council

www.nrdc.org

Sierra Club

www.sierraclub.org

Sierra Club Clean Energy Initiative

www.sierraclub.org/vision/energy.asp

Sierra Club Build Better Communities Initiative

www.sierraclub.org/vision/communities.asp

Union of Concerned Scientists

www.ucsusa.org

U.S. government resources

Partnership for Home Energy Efficiency

www.energysavers.gov

Building America (DOE)

www.buildingamerica.org

ENERGY STAR (EPA and DOE)

www.energystar.gov

U.S. Environmental Protection Agency

www.epa.gov

Green blogs, guides, and online resources

Barking Crickets

www.eco.barkingcrickets.org

EnviroLink

www.envirolink.org

Eco-Worrier

http://timesonline.typepad.com/eco_worrier

The Freecycle Network™

www.freecycle.org

GreenHomeGuide

www.greenhomeguide.com

Grist Magazine

www.grist.org

Lazy Environmentalist

www.lazyenvironmentalist.com

Metaefficient

www.metaefficient.com and

www.gotoreviews.com

National Geographic online “Is Your Home a Green House” interactive

www.nationalgeographic.com/everyday/greenhouse

Sustainable Style

www.sustainablestyle.org/sslog

Smart Communities Network

www.smartcommunities.ncat.org

SustainLane

www.sustainlane.com

Treehugger

www.treehugger.com

Publications about green topics

Barnett, Dianna L. and William D. Browning. *A Primer on Sustainable Building*. Rocky Mountain Institute. [ISBN: 1881071057]

Broadstreet, Jim. *Building With Junk and Other Good Stuff: A Guide to Home Building and Remodeling Using Recycled Materials*. Loompanics Unlimited [ISBN: 1559500360]

Building America Best Practices Series. U.S. Department of Energy, 2005.

Burnham, Richard. *Housing Ourselves: Creating Affordable, Sustainable Shelter*

The Healthy Home (Reissue Edition). 1990. [ISBN: 0070092370]

Davidson, Joel. *The New Solar Electric Home*. Stonefield Publishing, 2006.

Fuad-Luke, Alastair. *ecoDesign: The Sourcebook* (Revised Edition). San Francisco: Chronicle Books. March 2006. [ISBN 081185532]

Green Building Guidelines: Meeting the Demand for Low-Energy, Resource-Efficient Homes, 4th edition. Washington, DC: Sustainable Buildings Industries Council (SBIC), 2004. [ISBN: 0976207311]

Pearson, David (Ed.) *The Natural House Catalog: Everything You Need to Create an Environmentally Friendly Home*. Fireside Press [ISBN: 0684801981]

Sklar, S. and K. Sheinkopf, *Consumer Guide to Solar Energy*. Bonus Books, 2002.

Stang, Alanna and Christopher Hawthorne. *The Green House: New Directions in Sustainable Architecture*. New York: Princeton Architectural Press. 2005

Strong, Steven J., *The Solar Electric House*. Sustainability Press, 1994.

VanderWerf, Pieter A., et al. *Concrete Systems for Homes and Low-Rise Construction*. New York: McGraw Hill Text, 2005. [ISBN: 00771452362]

VanderWerf, Pieter A., et al. *Insulating Concrete Forms for Residential Design and Construction*. McGraw Hill Text. [ISBN: 0070670331]

Van Dresser, Peter. *Passive Solar House Basics*. Ancient City Press.

Wanek, Catherine. *The New Strawbale Home*. Gibbs Smith Publishers

Green magazines and journals

Solar Today

www.solartoday.org

Home Power magazine

www.homepower.com

Smart HomeOwner magazine

www.mondotimes.com

Plenty magazine

www.plentymag.com

Dwell magazine

www.dwellmag.com

contact info

for architects with residences featured in **The Green House** exhibition and companion publication.

1+2 Architecture

31 Melville Street
Hobart, Tasmania 7000
Australia
www.1plus2architecture.com/

Achenbach Architekten + Designer

Reutinger Strasse 93
Stuttgart D-70597
Germany
www.achenbach-architekten.com

Arkkitehti Oy Reijo Jallinoja

Siltatie 1
00140 Helsinki
Finland

Arkkitehtitoimisto Okulus Oy

Kuortaneenkatu 5
00520 Helsinki
Finland

Arkin Tilt Architects

1101 8th Street, #180
Berkeley, California 94710
www.arkintilt.com

ARRAK Arkkitehdit

Unioninkatu 45 B 42
00170 Helsinki
Finland
www.arak.com

Cocks Carmichael

200 Gladstone Street
South Melbourne 3205
New South Wales
Australia

David Hertz Architecture/Syndesis

2908 Colorado Avenue
Santa Monica, California 90403
www.syndesisinc.com

driendl architects

Mariahilferstrasse 9
A-1060 Vienna
Austria
www.driendl.at

Frank Harmon Architect

706 Mountford Street
Raleigh, North Carolina 27603
www.frankharmon.com

Kengo Kuma & Associates

2-24-8 Minami Aoyama
Minato-ku
Tokyo 107-0062
Japan
www.w02.so-net.ne.jp/~kuma

Kirsti Siven & Asko Takala

Korkeavuorenkatu 25 A 5
00130 Helsinki
Finland

Korteknie Stuhlmacher Architecten

Gravendijkwal 73f
3021 EE Rotterdam
postbus 25012
3001 HA Rotterdam
The Netherlands
www.kortekniestuhlmacher.nl

Lahz Nimmo Architects

Level 5
116-122 Kippax Street
Surry Hills, New South Wales 2010
Australia
www.lahznimmo.com

Lake/Flato Architects

311 Third Street, #200
San Antonio, Texas 78205
www.lakeflato.com

Leddy Maytum Stacy Architects

677 Harrison Street
San Francisco, California 94107
www.lmsarch.com

MacKay-Lyons Sweetapple Architects Ltd.

2188 Gottingen Street
Halifax, Nova Scotia B3K 3B4
Canada
www.mlsarchitects.ca

Michelle Kaufmann Designs

580 2nd Street, Suite #245
Oakland, California 94607
www.michellekaufmannndesigns.com

Office of Mobile Design

1725 Abbot Kinney Boulevard
Venice, California 90291
www.designmobile.com

Olson Sundberg Kunig Allen Architects

159 South Jackson Street
6th Floor
Seattle, Washington 98104
www.olsonssundberg.com

Pelli Clarke Pelli Architects

322 8th Avenue
18th Floor
New York, New York 10001
www.pcparch.com

Pugh + Scarpa Architecture

2525 Michigan Avenue
Building F1
Santa Monica, California 90404
www.pugh-scarpa.com

Rick Joy Architects

400 South Rubio Avenue
Tucson, Arizona 85701

Schwarz Architektur

Via Calundis 8
CH-7013 Domat/Ems
Switzerland
www.schwarz-architektur.ch

Shigeru Ban Architects

5-2-4 Matsubara, Setagaya-ku
Tokyo 156-0043
Japan
www.shigeruban.com

Steven Holl Architects

450 West 31st Street
11th Floor
New York, New York 10001
www.stevenholl.com

The Miller/Hull Partnership

Polson Building
71 Columbia
6th Floor
Seattle, Washington 98104
www.millerhull.com

Werner Sobek Ingenieure

Albstrasse 14
70597 Stuttgart
Germany
www.wernersobek.com

Will Bruder Architects

111 West Monroe, Suite 444
Phoenix, Arizona 85003
www.willbruder.com

William McDonough + Partners

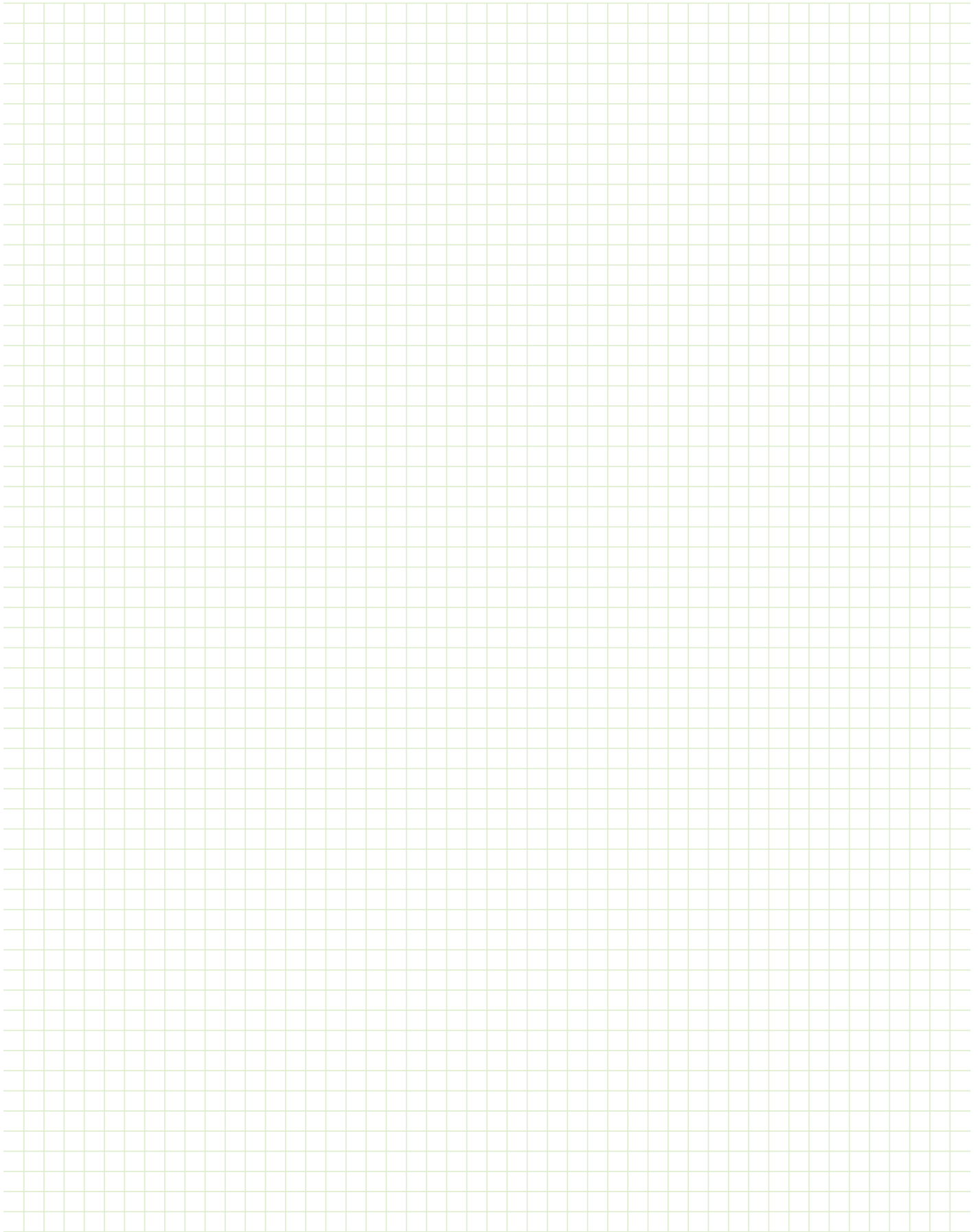
700 East Jefferson Street
Charlottesville, Virginia 22902
www.mcdonoughpartners.com

The Green House exhibition design**Lewis.Tsurumaki.Lewis (LTL) Architects**

147 Essex Street
New York, New York 10002
www.ltlarchitects.com

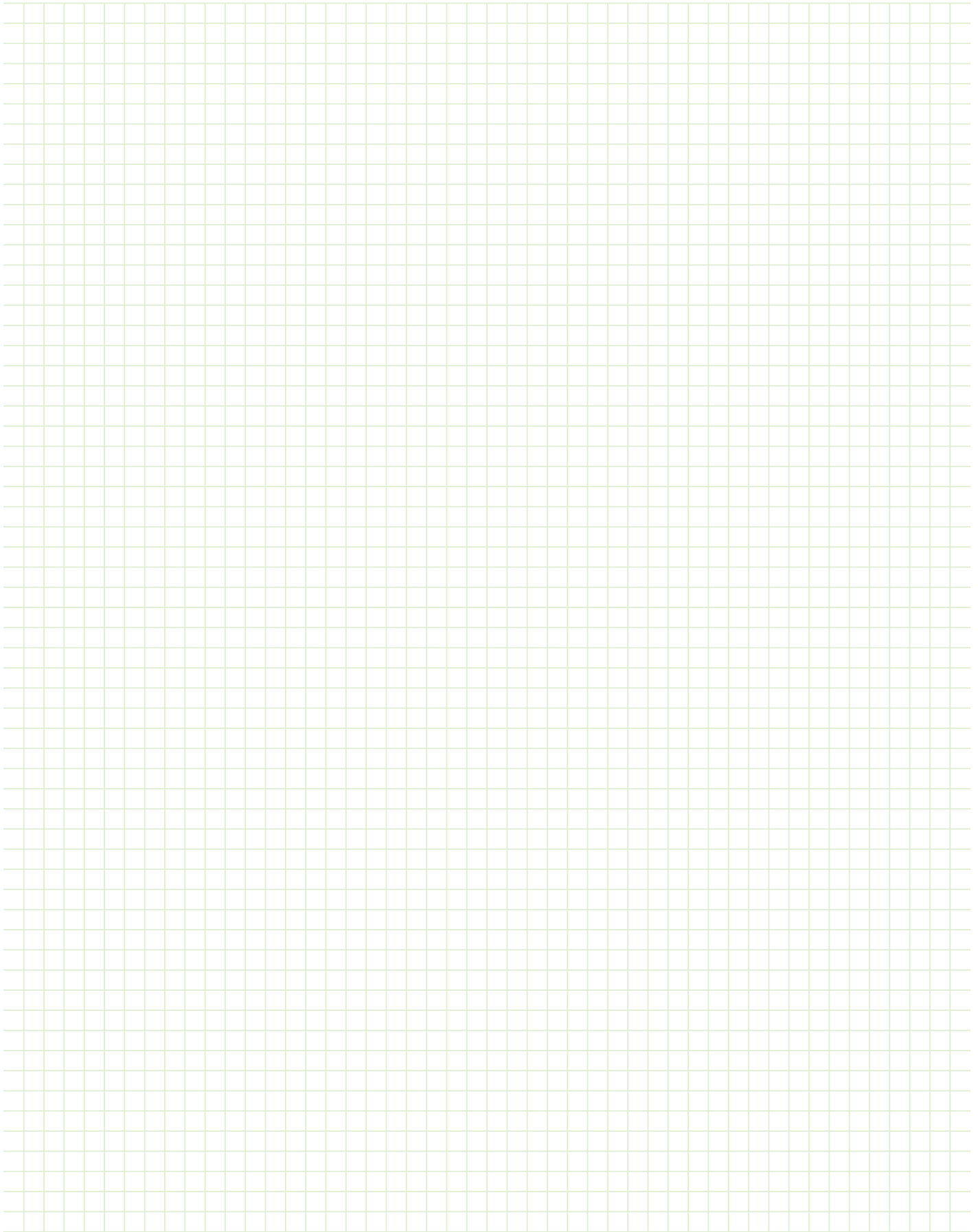
notes & ideas

A large grid of graph paper for taking notes, consisting of a 20x30 grid of small squares.



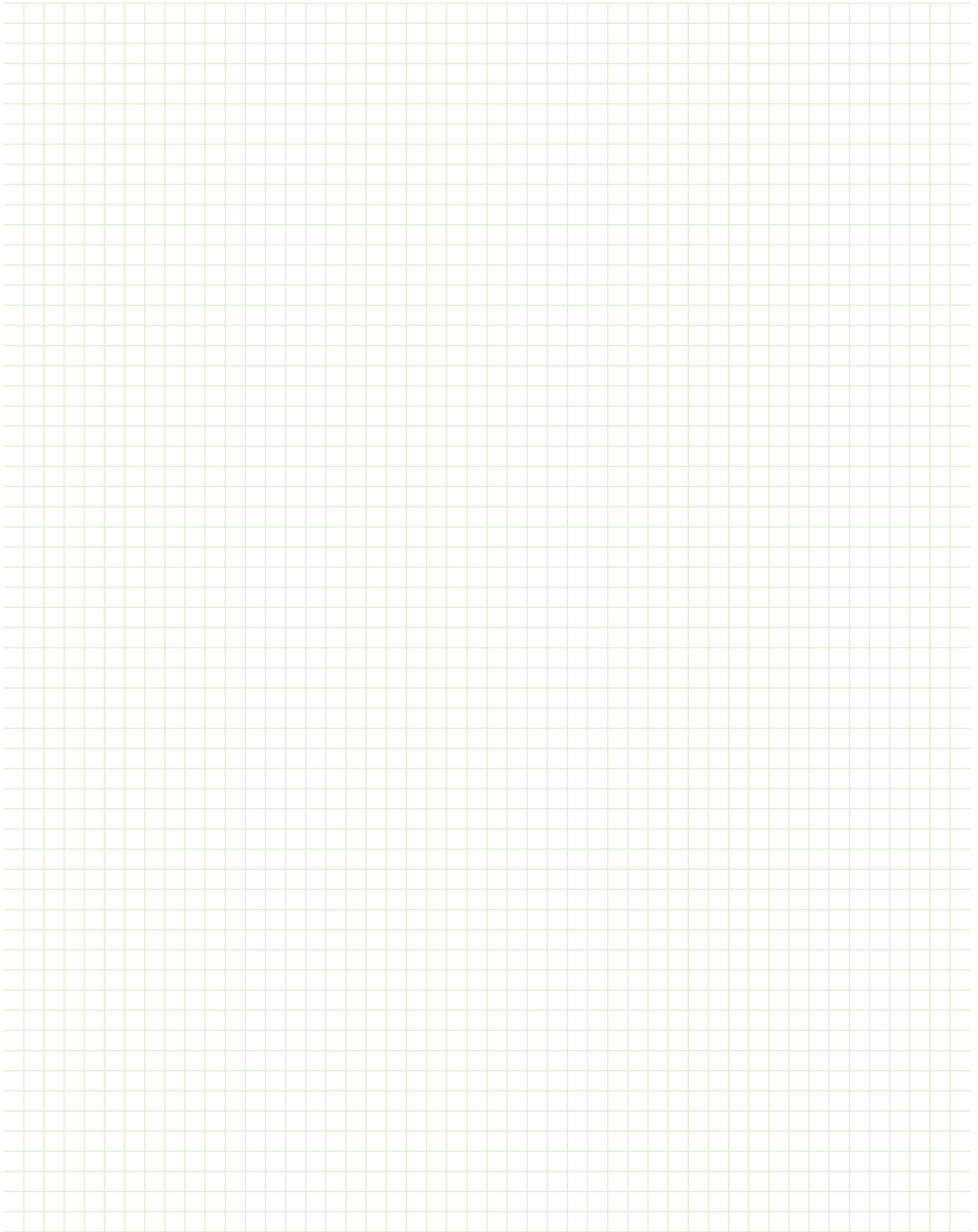
notes

A large grid of graph paper, consisting of many small squares, intended for taking notes. The grid covers most of the page area.



notes

A large grid of graph paper for taking notes, consisting of 20 columns and 30 rows of small squares.



notes

A large grid of graph paper, consisting of many small squares, intended for taking notes. The grid covers most of the page area below the 'notes' header.

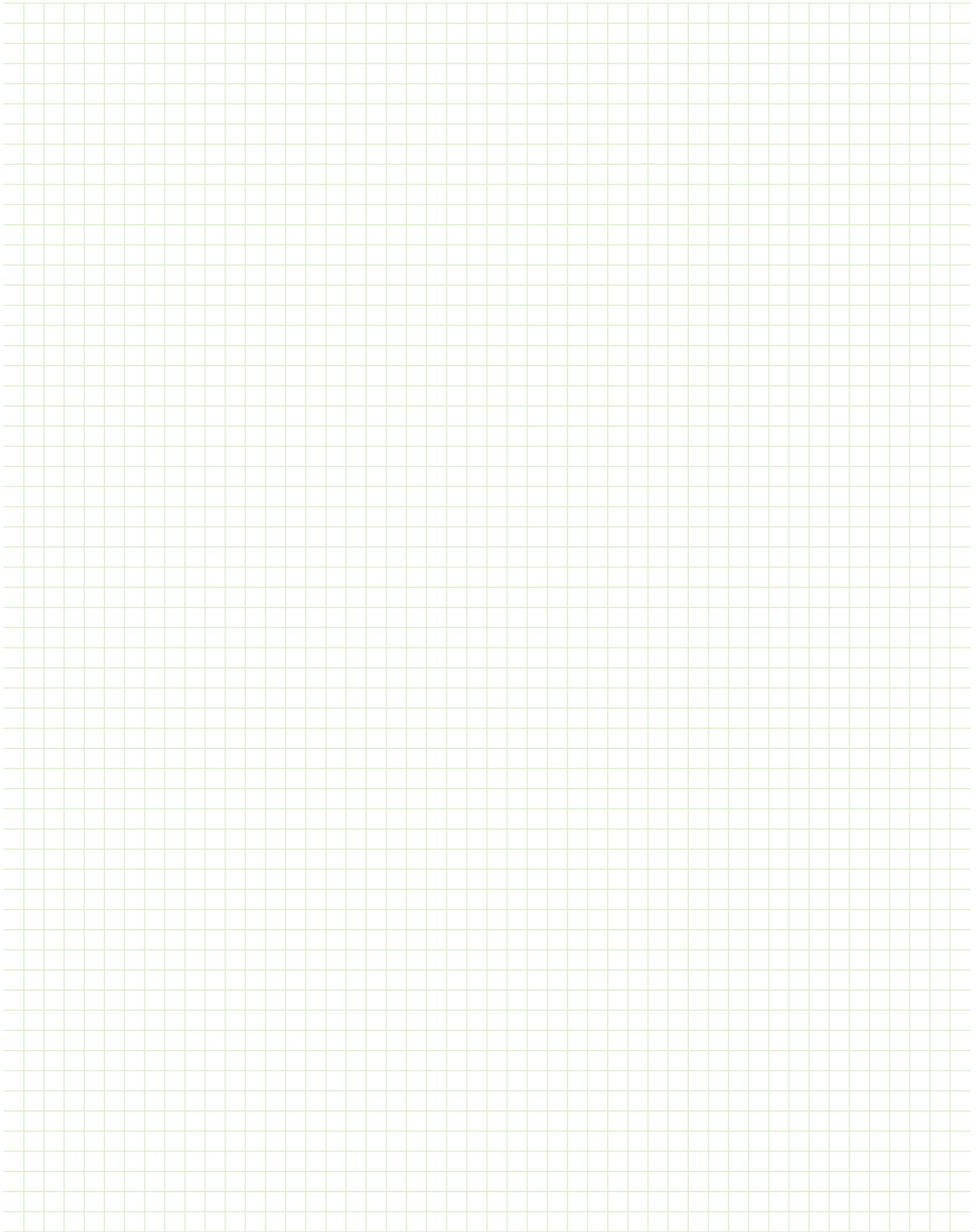


IMAGE CREDITS

Casa de Carmen, 2001 - Page 22

Baja California Sur, Mexico
Leddy Maytum Stacy Architects
Marsha Maytum and Roberto Sheinberg, Designers
© Luis Gordo, Photographer

Casuarina Beach House, 2001 - Page 13

Kingscliff, New South Wales, Australia
Lahz Nimmo Architects
Annabel Lahz and Andrew Nimmo, Designers
© Brett Boardman, Photographer

Colorado Court, 2002 - Page 3

Santa Monica, California
Pugh + Scarpa Architecture
Angela Brooks, Designer
© Marvin Rand, Photographer

Glidehouse™, 2004 - Pages 3, 4, 6

Michelle Kaufmann Designs
Michelle Kaufmann, Designer
© Michelle Kaufmann Designs

Great (Bamboo) Wall, 2002 - Front and Back Covers

Shuiguan-Badaling, China
Kengo Kuma + Associates
Kengo Kuma, Designer
© Satoshi Asakawa, Photographer

LoLoma 5 Lofts, 2004 - Cover

Scottsdale, Arizona
Will Bruder Architects
© Bill Timmerman, Photographer

P.A.R.A.S.I.T.E. Project, 2001 - Cover, Page 2

Rotterdam, the Netherlands
Stuhlmacher and Korteknie Architecten
Mechthild Stuhlmacher and Rien Korteknie, Designers
© Anna Bousema, Photographer

Swart Residence, 2004 - Cover

Melbourne, Australia
Cocks Carmichael
© Derek Swalwell, Photographer

Walla Womba Guest House, 2003 - Cover

Bruny Island, Tasmania, Australia
1 + 2 Architecture
Cath Hall, Mike Verdouw, Fred Ward, Designers
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