

31 STRATEGIES TO SAVE ON YOUR ENERGY BILLS

This Old House

OCTOBER 2006

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one-of-a-kind
products for
your redo
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ULTIMATE WORKSHOP
the 17 best tools
ever made

RADIANT HEAT
how it works,
how to choose it

Inspired Spaces

clean, bright kitchen ■
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letter FROM THIS OLD HOUSE

Countering Kermit

"THE PROFOUND IT WRONG." Usaid, looking at the title of cartoon for this issue: "It's only being green!"

I said it like that, exclamation point and all. And Jerry Rosenfeld, *The Old House's* design director, clearly stood at me and I was nervous who'd take the easy-closer but it really just easy-downed, with a possible Mappes Edition.

Thing is, we'd stuffed a ton of stories into this "green" themed issue, and it was gratifying to me that every one of them would be right in between our pages in my mouth. Turns out that the philosophy behind *The Old House* is inherently green, with our appreciation of history and our respect for lasting design, great craftsmanship, and quality materials. The advice we give about preserving and maintaining your home is all about sustainability. And older houses don't tack up resources the way a lot of new construction does. My place, for example, hasn't required a single 2x4 since it was built 125 years ago with locally sourced stone, wood, and plaster—the solid, simple stuff, stuff that is elemental.

With Jerry roll-taking me down, I got a call from my wife, who had what you might call some elemental news. The plumber had been to look at accounting some supply lines for our renovation. "Did you know," she said, "that you have a lead water pipe?" I wanted to ask her why the house was even here the pipe was there—but thought better of it. Then I thought, honey, lead's about as elemental as a gas—number 12 on the periodic table, right between thallium, which cannot have less, and bismuth, which is vaguely radioactive. As I don't glow, I frequently haven't had much lead in my system. The plumber can't comment on, though the picture of me at my back yard is a little bit less. Come to think of it, allowing a photo like that to be published might indicate lead exposure, which can cause, among other things, dementia.

None of which changes the fact that being green is easy—though maybe being complacently green is hard—and that every little bit helps.

San Clemente
JERRY ROSENFELD
DESIGNER

PS. The *Old House* television's 26th season premieres this month. The prospect that the crew might be a bit more lead-pipeless, along with mold and asbestos. Read about it on page 25—and watch the whole renovation on PBS.



Turns out the philosophy behind
This Old House is inherently green,
with our appreciation of history
and our respect for lasting design,
great craftsmanship,
and quality materials.



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Gear for Every Body

I appreciated the short bit about women's work boots ("Wanted: Women's Boots Made for Working," *Around the House*, July/August). But boots aren't all we women DIYers need. After what seemed like the nine millionth time up and down the ladder one weekend installing the siding on our shed, I finally decided it's time to get a tool belt. But they all seem too big and heavy for me. There must be lots of women in this country who are working in construction, doing woodworking, or their own home-improvement projects. I wish someone would start making tools and accessories that fit us. I don't need pink. I need practical.

PRINCEGEIL TEMPE, ARIZ.

The editors reply: While manufacturers are starting to realize that women want something other than olive-olym in their work gear, the choice of belts made specifically for women is pretty small. You'll find a few practical—but pink—ones at BedBath.com. Or you can do what some women on our staff have done instead: Go with a belt system, or tooling that has interchangeable components. This lets you carry only what you need for the given task: cutting down on bulk and letting you place pockets where you want them. Buckle Bros, Milwaukee, and DeWalt, among others, all make such belts. And to save a little weight, choose nylon rather than leather.

Water Down the Drain

In your July/August issue you have an important and timely article on xeriscaping ("Reviving a Water-Wise," *Landscape*). I'm a self-employed gardener and am appalled at how thoughtlessly some people waste water, particularly through careless use of auto-irrigation.

I therefore have to take exception to the fact that at the same cost ("Two Rooms, 40 Gallons," *Landscaping*) the article also recommends that pumps use 5 gallons per minute. I'm sorry, but this is, ecologically, no better than pouring down 50 Gs that get 32 miles per

gallon, not because they need the power or space for hauling, but just because it makes them feel good. The reason our society can't get a proportionate use of the planet's resources is precisely because nearly everything and everyone continues to glorify excessive consumption. Any future that puts out water at that rate (and right down the drain) to believe just one person shouldn't even be legal.

DOUGLAS MARIO KANSAS CITY, MO

Plants With Too Much Staying Power

David, for your promoting xeriscaping ("Reviving a Water-Wise," *July/August*), but if readers plant invasive species they're likely to lose more staying power than they bargained for. The species listed at www.xeriscaping.com, for instance, sometimes called Chinese all-virgins, can easily escape from gardens in the south western United States and become noxious weeds, forest edges, and fields. It may not be the best choice for dry areas either, as it is highly flammable. If you've just gotten here, it then search for navel oranges.

ANDREW DOUGLAS ARIZONA, AZ

The editors reply: You make a good point about careful selection. That's why our recommendations in the article were specific.

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to the "Zibitikus" and "Gaseitikus" varieties of Macorhous which do not self-seed. To learn more about invasive plants turn to "Space/headers," page 26.

Reinventing a Salvaged Door

I always read TDM from cover to cover the moment it arrives in my mailbox. I was thrilled to see this article on reusing old doors ("Old Doors' New Uses," January) as well as "Adding Glazing to a Door" [Ask This Old House: March]. Pulling these ideas together completed my vision of reusing an old door as the entry to our newly remodeled bathroom. The end result (right) is awesome. The sliding barn door type setup helped open up a very small area and added visual interest to an otherwise plain wall (and the obscured glazing allows light but maintains privacy). The project was labor intensive but well worth the time and effort. Thank you for your continued inspiration in making my home a more beautiful place to live.

MARTY DASHNER ALBUQUERQUE, N.M.

The editors reply: If other readers want to steal Marty's idea, the 3-foot sliding-door hardware she used is by Richards Hardware (richardshardware.com).



Single Women Home Buyers

Thank you for integrating women like myself and me, who are members of that growing population of the "Single Female Home Buyer" Association ("Single Female Home Buyer," June). We were teased by journalists before if we waited, at something we'd have to save our models and make it happen. Living by our dad's amazing credo, we both have graduate degrees and have sold our own. Dad has been through a realtor remodel with my sister and he's about to help me with mine. For Christmas he bought me a toolbelt and work gloves to match, lending not too subtly that again, if I wanted a new bathroom I'd have to save my wheels and make it happen. Have looking at all the TDM projects I can do. (Oh, is a favorite) and am pleased that you are aware of women's overall demographic.

EMILY M. P. SULLOCH CALIF.

Dogs and Lawn Bots

I have an additional tip for the readers from Colorado about "dog spots" on the lawn ("Dog

vs. Lawn," Ask This Old House, July/August). I have four dogs and no lawn spots—each dog gets about 150g of alfalfa pellets every morning in its warmer morning. They love it, and it prevents the lawn burns. I don't know how it works, but it does. My pink wire as the only 1/2 inch of Gardenia last year. Our vet, stayed 8, and the dogs always check out here. One is 13 years old, and 12, one is 9 and the "baby" is 7.

CHRISTINE HANSON ANCHORAGE, ALASKA

The editors reply: Several readers wrote in with the same tip: allegedly the alfalfa just has a neutralizing effect on the nitrogen in dog urine. There's evidence, though that parts of the lawn to plant, can be bad for dogs, so check this out with your vet if you want to try it. There are also pills and treats available for the same purpose.

Corrections

"Publishing a Confession Goes" (September) We neglected to credit the styling of the photo shoot to Blair Carter. Our apologies for the oversight.

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READ TO KNOW

October 14 is the first national Herb Day when celebrations of sage, thyme and other seasonings will be held by parks, gardens, and home centers across the country.

Brand New Bamboo

Finishes and furniture that are both stylish and sustainable

TAUNTING ABOUT BAMBOO isn't "new" build ing material is ridiculous. It's been used in Asia for everything from chairs to chopsticks for as long as rice's been a main course. But now that we in the West have finally caught on, companies can't wait to jump on the bamboo bandwagon. The natural perfume on our walls once woods. But bamboo is a grass, bamboo grows about four times as fast, growing up as much as 100 feet a 60 days. And even in questionable harvesting and shipping practices can derive on its overall "greenness," bamboo's rapid regrowth makes it a viable alternative for flooring, cabineting, and furniture.

The Ascending flooring seen here is a buckstrap (1) locks together, earning extra points for enclosing glass and lacquers. Two contemporary options from Green Building Supply show the difference between bamboo's natural grain (2) and edge-grain (3) patterns. When hand stain such as Pure Kiehl's clean-lined cabinet door (4), which is set off by a leaf-free power pull (5) from Greenberg Bamboo doors (6), lacquered by Mark Rogers of Cambridge Studio, slide along a dovetail joint. The trim, enamel, and coffee bar shown on all these pieces explore bamboo's diverse color palette, but deep down, they're green. —WALTER DUNN



Prices, \$7 per square foot (including glue). Countertops (\$4.40 per sq ft) and \$21.20 per sq ft (including glue). Green Building Supply's Bamboo is a natural material, made of 100% bamboo. Bamboo is a natural material, made of 100% bamboo. Bamboo is a natural material, made of 100% bamboo.

SPEAKING OF BAMBOO...



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CLIMBING CLIMBERS
Bamboo is the fastest growing plant in the world. It grows at a rate of 1.5 inches per day.

SAVE UP BY SAVING WATER

With over 2 billion Energy Star-certified products sold in the U.S. since 2002, energy-saving appliances are becoming the rule, rather than the exception. Now, the Environmental Protection Agency—the program's creator—is trying to duplicate its success with a new water-conserving program called



- 2- Fix leaks pronto. One dripper second adds up to 2,700 gallons a year.
- 3- Flush down the garden in the early morning or at dusk to avoid losing water to evaporation caused by the hot sun.
- 4- Don't use your toilet as a trash bin. Every unnecessary flush equals 1.6 gallons of wasted water.
- 5- Scrub, rather than rinse, plates after loading the dishwasher.

— *Adaptation of the curriculum*



{ DAYTIME: CWIE }

Who thought we could owe so much to measles? According to legend, British rubber entrepreneur and footballer William Davies donated the formula for measles to other entrepreneurs with the film left by Thomas of the patent law. Measles became a popular alternative to measles. These coverings because of the durability, waterproof, and anti-theft in the outdoor.

In what year did Britain join the rug empire under the aegis of the industry with its Machine system?

A 1055 C.1513 C.1843 D 1792
(Dante/Virgil Annual) pp. 33

Copper Pipe

With scrap buying selling for as much as \$4 per pound, copper bits are worth recycling—if you had one by the truckload and if you weren't \$4 a gallon. Fortunately, a trip to the scrap yard isn't the only way to give new life to the odd and unloved left over from your last DIY plumbing job. —*ANNIE MOSE*

Hold a roll of Copper-plex wire in support for 10 minutes per 70 ft technique editor Mark Powers made the one above out of tubing, and various fittings. We keep its stock size 1/2 inch outer.

Protect plantings: Soldier or creative copper can to me end of a 30-inch-long tube. Then drive the other end into the soil to keep the garden hose from dragging over your seedlings.

Make a wind-chime. Cut various lengths of tube; the longer the piece, the deeper the sound. Loop Dan Fieroli of the Copper Development Association. Drill hole as wide as each tube's top. Loop fishing line through the openings and hang from a wooden dowel.

All high. Connect assorted adapters and elbows to a length of 1/2-inch tubing to form a hooked staff. Screw a shower head in the hook end and a garden hose on the other to make a watering wand for drenching hanging baskets.

Shims are used when it's difficult to pry the door out of the frame. Depending on tubing gauge, shims will range from $\frac{1}{8}$ inch to $\frac{3}{4}$ inch thick.

Deck out a sheer [live] 2-inch-diameter rope instead of wood for balusters. Be sure to follow local codes for spacing. Left in the weather untreated, copper develops a weathered patina.

Cleave gutters. Pound flat the last 6 inches of a long length of tubing; then bend the tip to form a 90 degree angle to rake out heat for much work.

Move mountains Pyramid builders in ancient Egypt transported heavy stones by rolling them over paper-like cylinders—corks with overfilled trash cans, too.

Doesn't shatter. Make a hot-proof truth out of tubing and fittings. Mount it on a wall or anchor it in the soil for a free-hanging toilet for vines to grow on.

Close up: Out! says copper tubing to the end of a vacuum hose to suck spiders from rafters. Out! run the vacuum for up to three minutes, though, or the increased back pressure caused by the narrow exhaust will strain the motor.



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Space Invaders

How to prevent nonnative plants from running amok in your yard

Problem Plants

Here are some plants still commonly found at nurseries and garden centers that have made the massive list in many regions of the country



VINES

English ivy (*Hedera helix*)
 Tree-of-heaven (*Ailanthus altissima*)
 Periwinkle (*Cathartus edulis*)
 Oriental bittersweet (*Celastrus scandens*)
 Wintercreeper (*Euonymus fortunei*)
 Japanese honeysuckle (*Lonicera japonica*)

HERBS AND PERENNIALS

Vernon (*Centella asiatica*)
 Wormwood (*Artemisia biennis*)
 Orange mint (*Origanum onites*)
 Purple loosestrife (*Lythrum salicaria*)
 Peppermint and spearmint (*Mentha* spp.)
 Chokeberry (*Amaranthus retrofractus*)

SHRUBS AND WOOD VINES



Japanese barberry (*Berberis thunbergii*)
 English holly (*Ilex aquifolium*)
 Multiflora rose (*Rosa multiflora*)
 Japanese spirea (*Spiraea japonica*)
 English holly (*Ilex aquifolium*)

GROUNDCOVERS AND GRASSES

Flowering quince (*Pyrus dohertyi*)
 Garden spurge (*Euphorbia pulcherrima*)
 Spreading knotweed (*Polygona persicaria*)
 Vinca or periwinkle (*Cathartus edulis*)



When choosing the plants of the local nursery, ask for the help of the nursery staff to choose the best plants for your yard.

AGGRESSIVE, SELF-NATURALIZING, OR QUICK-SPREADING, INVASIVE, FAST-GROWING, EVERGREEN, PROLIFIC, ADAPTABLE, PEST-RESISTANT

DESIGNED BY GARDENERS for an ability to camouflage an unsightly flower bed (or a corner of the yard) where the sun barely shines, evergreen English ivy has long been a top-seller at nurseries. But this vine's vigorous growth habit has also earned it a more dubious distinction—it can invade plant species that will vigorously cross into neighbors' yards and, when conditions are friendly, adjoining fields and forests, too.

During the 1930s when it was imported from Europe to brighten dark corners of gardens, English ivy is now virtually a garden pest in many areas. "It's a real problem," says ecologist James Aronson of the National Forest Service. "And though the problem is serious, it's not a disaster and will not cause any harm to people, so do problem plants here. Some species that are common in Southern California aren't a threat in New England states that experience a hard freeze—at least not so far. Many experts use global warming as a crutch for the rest to move on."

So before you plant your beds and borders, check with your local cooperative extension service and visit your garden center to see what species pose threats in your area. If you're not sure, ask for a potential invader, you need to remove it. "If you plant a species, it means that it will spread and you do something to stop it," says Tim Old House landscape contractor Roger Cook. So plant responsibly: spending groundcover behind each edging each day to control the roots. Plant invasive species to keep them from spreading. And divide and divide the plants from the roots. And divide and divide the plants from the roots. And divide and divide the plants from the roots.

Butter, rock with species native to your region. It might take them a little longer to cover the ground, but your conscience will be clear—and your neighbors will thank you. —JULIA ROBERTS

Build a world we all can live in.



Building a cleaner world is easy. You can help by recycling your old rechargeable batteries once they've worn out. Check the rechargeable batteries in your power tools, cameras, cellular and cordless phones, two-way radios, and laptop computers. It may no longer hold a charge, recycle them by visiting one of many collection sites nationwide, including those retailers listed below. For a complete list of rechargeable battery drop-off locations, visit www.call2recycle.org or call toll free 877-2-RECYCLE.

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Ask the Insurance Experts ABOUT TO YOU BY



Q: How can I minimize the risk of losing my identity information?

A: To protect against it, learn identity theft — how the latest phishing come in America — the key is managing personal information wisely.

- Ask unneeded phone calls to avoid information in writing and do not enter the personal information.
- Share personal documents such as credit cards and bank statements before shredding them only.
- Do not carry around your Social Security card, birth certificate or passport.
- Monitor bank statements, credit and credit reports monthly.
- When conducting business online:
 - Only supply personal information to a reputable company or website.
 - To verify the integrity of a site, consult the Better Business Bureau at www.bbb.org.
 - Do not give personal information to unsolicited email requests even when they appear to come from legitimate businesses or organizations.

To add to following these tips, you may want to consider Identity Fraud Expense Coverage from Liberty Mutual. For more information on this coverage, contact your local Liberty Mutual office or visit www.libertymutual.com.

*Identity Theft Insurance Coverage. \$200,000.

around the HOUSE

FOREVER GREEN

5 TRADITIONAL BUILDING PRODUCTS BOAST ECO-FRIENDLY QUALITIES

Audible-powered motor was presented in a paperless CD by a friend's mathematics class in 1992, and as far as low-fuel boats go—remember the outboard? Well, at least you've heard of it. Here's a look at some other old-timey technologies and materials adopted today that have always been green.



TOO HOT TO HANDLE—A natural binder—to cement the wood fibers back together. No formaldehyde binders means no off-gassing.

MINERAL WOOL Before the plastic fiberglass stuff rolled onto the market, mineral wool, or rock wool as it's also called, was the insulation of choice. It's made with 75 percent post-industrial recycled content, namely slag waste, the stuff that forms on the surface of molten steel during production.

HOWARD'S FIBERGLASS Made from 100 percent recycled paper when 2008, Minnesota's Howard's Fiberglass made from 100 percent recycled paper when 2008. Minnesota's Howard's Fiberglass made from 100 percent recycled paper when 2008. Minnesota's Howard's Fiberglass made from 100 percent recycled paper when 2008.

TERA-GOTTA It's "terracotta" transliterated mightily. All gone to the river in a moment or so, but as yet the first clay hasn't been blessed for global warming. Made from water, clay and previously fired clay bits, the roof and floor materials date to 10,000 BC.

MILK PAINT There's VOC-free, formaldehyde-free milk, lime, and natural pigments. Just, yeah, found in 3,000-year-old caves. It's gunkier than today because it doesn't emit noxious fumes everywhere.

MASONITE HANDS Invented in 1924 by Nelson W. Mason, the plywood process is a value-added product that uses no formaldehyde binders.

FOR TIP

Sand Better

TDH editor Scott Omslowek affixes self-stick cork to a 2x4 scrap and wraps it with sandpaper to make the perfect sanding block. "It's more forgiving than the hard wood face, but less so than your hand," he says. You can also change its shape (for example, cork shelf liner wrapped around a dowel) to suit your job.



Would raise his favorite TV show to study for his math test.

Thanks kids are better off in a nap than a video arcade.

Using a computer and laptop makes it easier to get your stolen identity back.

Yes, there's an insurance company that's as responsible as you are.

For auto, home, or life insurance, call 1-800-4-LIBERTY or visit libertymutual.com.

Responsibility. What's your policy?™





NEW GARDEN GEAR MAKES AUTUMN CLEANUP EASIER

Leaf blowers? Well, they make an awful lot of noise. And besides, we're all up for the straw-bale people. So skip the funny-looking endearings and try these new, easy-to-use manual products instead. —JENNIFER KNOTT

The Felt A Cart is as flexible as one of those scary little gymnasts in Cirque Du Soleil. But it's also as tough as the strawman. So use it to cart rocks for that garden wall you've been wanting to build, and then squish it up and shovel against the garage wall where it won't take up precious floor space. The 6-cubic-foot Felt A Garden model is \$140 at feltsupply.com.

KelcoKen is a plastic sheet that folds inside a leaf bag to form a mouth through which you can make leaves. Its rigid sides mean you can then prop up the bag like a regular one to log it off. At 1/2 inch thick, KelcoKen does the heavy leaf bag job in \$15 at kelco.com.

Instead of putting yard waste in bulky black polyethylene trash bags—minus older decades for bulky outdoors—try open-bottom compostable sacks from Ecolab. The women will be done with them in 45 days. Five 33-gal. bags are \$24 at ecolab.com.

Swing trees into a pile and jump in, or transfer the bags to the compost with the Felt A Cart. Its ergonomic cut-handle handle extends to 48 inches, and the ratchet straps 270-degrees so you never have to. The Felt A Cart Plus is \$39 at feltsupply.com.



THE RESTORATIONS OAK PARK AND RIVER FOREST, ILLINOIS

Who says the suburbs are soulless cultural wastelands? Take Oak Park. Simply The Chicago satellite with thousands to watch as few as Ernest Hemingway said the Rest Town of American architecture. Thanks Lloyd Wright. In fact, Oak Park boasts the largest collection of Wright houses (25) built between 1880 and 1910, as well as the master's own residence and studio, where the Prairie School of architecture was born and raised.

Another famous architect who hung his hat in Oak Park was S.T. Gustafson. His residence, Gustafson Historic District features dozens of mansuquans, each with its own unique variation on the style.

And for those of you who are architecture geeks, you can tour the Second Empire-style house where Hemingway was raised until he graduated and flew high school. The nearby Hemingway Museum details the writer's life and home through photography, letters, and artifacts.

The neighboring village of River Forest, Illinois, is famous for its campus of Craftsman-style homes. Six of the best will be open for decent last tours on October 14. Tickets are \$40 the day of the event. Call 708-343-2654 for details. —JESSIE HANCOCK



TOP: Frank Lloyd Wright designed Unity Temple in 1906 for Oak Park's Unitarian Universalist congregation. **ABOVE:** One of River Forest's famed homes.



DESIGNER: A BREEZE

C.3901 Made from hand-dyed, plant roots, and four polished oak, and Rosewood, Lustrum is a living sculpture and doesn't give off any toxic VOCs. As mentioned by all these perfectly preserved mid-century moderns, it's also durable enough to last for decades.

SEE: www.c3901.com, 813-400-0000, 813-400-0000

Sandwiched

between a cement floor and a skin.

It can pick up in Nevada.

After they separated everything,

he drove himself home.

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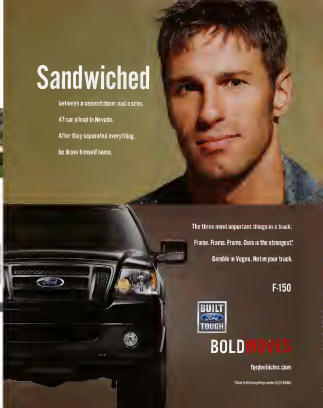
F-150



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A Stylish Clay Finish That You Can Apply

Natural earthen plaster looks good and offers no trowel trouble

CLAY PLASTERS can conjure images of the rough walls in traditional cob-cott and adobe houses. But American Clay, the maker of Earth Plaster, invented a malleable plaster that can mimic styles from silky Venetian to pebbly Potosi.

The formula—natural clay, recycled marble dust, and pigment for color—comes ready with the eco-conscious, low-energy production (it's made in the USA, with domestic ingredients), no toxic chemicals, no asbestos fibers.

Gypsum plasters, by comparison, emit carbon dioxide as they dry. And lime plasters, which are harder than clay, hold heat outdoors and don't have that regular room temperature in well. Then there's the pH problem: Lime can burn your skin during application.

Earth Plaster plasters restoration projects, too. The material meets most preservation standards for malleability, flexibility, durability, and mold-and-mildew resistance.

It's also DIY-friendly: Just add water, and

apply it to sand in an especially geared wall. The plaster, which comes in 40 colors, goes on in two coats with no sanding in between, and takes about six hours to dry. "Our best markets are people who've never used [plaster] before, because they don't have a preconceived idea of what it's supposed to do," says American Clay spokeswoman Carol Beaupre. For should you need help, the company will provide the name of a local installer.

Even without labor costs, though, Earth Plaster costs more than its conventional cousins: about \$1 to \$1.50 per square foot, compared with \$2.00. But just think, "the bulk of my money means you'll love me just as much," according to Beaupre. And since you also have your say in the look—by choosing it well, you can save a small batch of the plaster for up to six months for touch-ups. For or design-inspiration, visit a nearby application instruction, visit a nearby application instruction, visit a nearby application instruction.

—LISA SELLER

CLOCKWISE FROM LEFT:

American Clay's red Earth Plaster walls (shown) in the living area of a 2,500-sq-ft home in the San Francisco Bay Area. The walls were recently installed by a local installer.



PHOTOS: AMERICAN CLAY

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Classic Craft™ American Arts & Crafts™ 10020

Bungalow

Rooted in the early 20th century Arts & Crafts movement in England, the bungalow style espies form and function. Neatly made of medium - dark stained wood, the front doorway harmonizes with other natural tones of the house's front exterior.

THERMA TRU
DOORS



Classic Craft™ American Arts & Crafts™ 10020

Classic Craft™ American Arts & Crafts™ 10021



Classic Craft™ English Cottage™ 10024

Victorian

This style originated with England's renewed appreciation for Renaissance architecture during Queen Victoria's reign, and eventually grew fashionable in the 19th century United States. Victorian style doorways, like the rest of the house, are characterized by lavish design details, contrasting colors and decorative glass.

THERMA TRU
DOORS



Classic Craft™ English Cottage™ 10024

Victorian™ 10110



Classic Craft™ Colonial™ 10010 - height 8'00" fit wall and 7'00" fit ground

Colonial

Though influenced by Old World Europe, especially England, there is no home style more iconic in the United States than colonial. From early Dutch Colonial to the later Colonial Revival, it's a style that's seen many periods and influences. Through most, the tradition has remained a hallmark of the front door.

THERMA TRU
DOORS



Classic Craft™ Colonial™ 10010

Victorian™ 10110



Classic Craft™ Oak Cottage™ 10021

Ranch

Very popular from the 1950s through the 1970s, the ranch style is regaining popularity today as values return to the need for efficient, simple design centered on home entertainment. The doorway is usually the front exterior's most expensive architectural element, often incorporating detailed styling, like decorative glass details.

THERMA TRU
DOORS



Classic Craft™ Oak Cottage™ 10021

Victorian™ 10110

Country

Often two stories, country style homes are accommodating and look best when laid back. Rustic doors with clean lines evoke the simplicity of country style and can even hold its step with modern needs for an uncluttered look and feel.

THERMA-TRU
DOORS

Classic Light Rust Collection™ CCL0018



Real-View™ R01



Therma-Tru® 60" x 80" with 10" x 10" double unit (10" x 10" double)

European

European style homes reflect a touch of elegance and a reminder of the grandeur and heritage of the Old Country. This home style usually features a front exterior of stucco, brick, or stone and the entrances often have dominant Oak or Mahogany doors with an arch at the top or an arch design in the door.

THERMA-TRU
DOORS

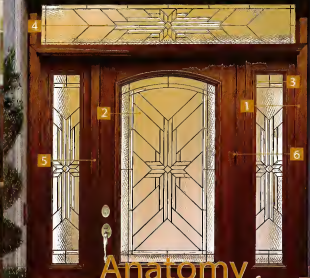
Classic Light Rust Collection™ CCL0018



Classic Light Rust Collection™ CCL0018



Therma-Tru® 60" x 80" with 10" x 10" double unit (10" x 10" double)



Anatomy of a door

Every home style has its own signature combination of these elements. Therma-Tru's Golden Gate knows these elements will help you make informed decisions about your options for an entryway that works with the rest of your home.

1. **Transom** - The decorative molding, used to finish the exterior face of a wood frame. 2. **Panel** - The rectangular molding around the opening area that covers the gap between the frame and the wall. 3. **Hardware** - Decorative or functional items that are part of the door. 4. **Knob** - The round or oval-shaped handle that is used to open the door frame. 5. **Frame** - The wood structure that supports the door and the wall system. 6. **Panel** - The rectangular molding around the opening area that covers the gap between the frame and the wall. 7. **Panel** - The rectangular molding around the opening area that covers the gap between the frame and the wall. 8. **Panel** - The rectangular molding around the opening area that covers the gap between the frame and the wall. 9. **Knob** - The round or oval-shaped handle that is used to open the door frame. 10. **Panel** - The rectangular molding around the opening area that covers the gap between the frame and the wall.

The difference with Therma-Tru is that all of the above are not just a door, but a door system. All of the components are designed to work together. Trouble-free.



Making a Stylish Entrance

Choosing Door Styles That Suit Your Home's Architecture

BROUGHT TO YOU BY
THERMA-TRU®
 DOORS

When it comes to personalizing the home, it's all in the details. What better way to set the tone for your home's unique style statement than with a door that enhances its exterior character and offers a clue to the mood and atmosphere that awaits inside. This poster guide from Thermo-Tru® Doors will help you identify the style of home you live in and offer suggestions as to the types of entryways and door details that will best complement your home's style. Look inside to learn about six common residential architectural styles and view fitting options from the Thermo-Tru collection of innovative fiberglass doors.

KITCHEN DESIGN



Clean and Green

» Designed to be family-friendly, this warm and bright kitchen redo manages to be earth-friendly, too

THE BEST REMODELING IDEAS often spring from sources close to home. At least that's what Portland, Oregon, homeowners Eric Park and Grace Lee-Park discovered when they were reviewing ways to make their 1937 bungalow more livable for the long term. With expert remodeling guidance from the city's innovative Green Building Program and the husband-and-wife design team of Sean and Lauren B. Cho, the couple found ways to use recycled, sustainable, and salvaged materials for all the major elements of their new kitchen. To improve the room's storage options, they relocated the brick door (formerly positioned in the path from the garage) and removed an interior wall to create an open area where they could enjoy casual meals with their two children. They painted the cabinets with recycled-drum paint, tiles and installed new cabinets with salvaged exterior doors and floors of sustainably harvested red alder finished with a natural pine oil-based interior-sealable cherry. The old windows and the floor were saved and restored. So strong was the natural vision that the Parks even found a new purpose for the hole in existing lower cabinet: It now opens to reveal a storage cavity with a shelfboard for dishes and a workbench for remedies.



BEFORE: The original oak cabinet provided little usable prep or display space.
AFTER: Easy-to-install maintenance-free recycled-aluminum frames cover cabinets that surround the built-in island to meet further sleek flooring the range.

BY JILL CONNORS
 PHOTOGRAPHY BY
 SARA LEE



The Plan

» Create a more efficient layout within the original footprint—and make it eco-friendly

What They Did

1 | RETHOUGHT EXISTING SPACE

The dining room along the left isn't a true outdoor wall, leaving no chance of a bumpout to increase square footage. Since the designers couldn't make the kitchen bigger, they worked to make better use of the space, creating an open floor plan by removing the wall that divided the kitchen's work area from a den adjoining the rear deck.

2 | KEPT THE OLD WINDOWS

Demolishing the interior wall of the room had the added benefit of supplying venting for the room's natural light by exposing the existing double windows, which were reused in the renovation and trimmed out to match the windows over the sink.

3 | CREATED A REAL WORK TRIANGLE

Clumped up the back door alcove for better placement of sink, stove, and fridge, which are now positioned along two walls in an efficient L-shaped layout.

4 | REDUCED THE BACK ENTRY

A space-efficient pocket door between the fridge and pantry now leads to the existing hall and the relocated back door.

5 | ADDED A PANTRY. A double-door food cabinet right inside the back entry to the kitchen now stores items when unloading groceries. The cabinets, stove, and hood are wheelchair-accessible by product made with nonferrous hydrophobic that does not rust or peel.

RECYCLE Secondary drainage and light-bulb recycling bins for waste as well as a server storage of sunlight, water, and storage. The two large trees in the back yard (which the back door had been in an improved L-shaped floor plan) adjacent door now opens onto the hall leading to the new rear entry.



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"Visiting green-building projects on a local house tour inspired us early on in the planning of our new kitchen."

—ERIC PAUL HAWKINS

The Details

Recycled, reused, and sustainable materials create a welcoming, clean-lined design.

1. **THICK BUTCHER-BLOCK COUNTERTOPS** from Green Mountain Woodworks are made of hard Pacific Northwest wood, a native species sustainably harvested in the Pacific Northwest.

2. **ARCHITECTURAL GLASS BLOCK** forms a translucent backsplash above the new range, providing a quick-to-raise-down surface and an unusual vantage point on the home's rear backyard. The advantages of approaching friends and family members are visible through the glass.

3. **100-PERCENT-RECYCLED ALUMINUM** sink by Dansk cover the countertop. Finished with a nonstick powdercoat, they resist stains and fingerprints and are non-reactive. A durable latex sealant fills the five spaces between the basins.

4. **THE FARMHOUSE SINK**, made from 100 percent recycled aluminum by Dansk, is wide and deep, measuring 36 by 18 by 9 inches. The sink's offset drain creates more usable space in the under-sink cabinet, while the goose-neck faucet from Dansk makes filling tall pots, quailers, and flower vases easier. The farmhouse design lets us expose the sink's classic apron front, preferring to let the kitchen's sustainability take center stage.



Architectural glass block design detail: thick butcher-block countertop



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Please see important information about ADV AIR on the next page.

Results may vary.



SALVAGE

Reusing Old Accent Windows

» How to give vintage transoms, sidelights, and decorative sash new life in your house

BY AMY B. HUGHES
PHOTOGRAPHS BY JESSICA PAUL



IF YOU'VE HUNG THE WINDOWS of the window world, with its sliding sash to bring in air and shut out rain, then a fixed-or-glaze transom, eyebrow, or circular window is the show pony. Such accent windows are meant to catch the eye—topping a paneled wood entry door, working from below an arched alcove, or tucked under the eaves as a front porch.

The window types do share similarities, though. Just as the number of divided lights or panes in a double-hung helps you discern the difference between a Georgian-style house and a Greek Revival, an accent window's shape and ornate panes—framed by wood muntins or metal casings—can define a house's architectural heritage.

Designs of early American windows were driven primarily by the availability of glass and the technology for making it. In the 1700s, the majority of glass was handcut in England; imports were expensive, and panes were often small. So small, in fact, that in order to fill a typical window opening, they had to be grouped together as a wooden or metal grid.

How to replace old accent windows
RebuildReuse.com/Rebuild

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...could cover the whole house?

See photos from the Wicanders Cork Oak Floors — Wic.

A photograph of a traditional Chinese building. The image shows a red door with a circular window above it. The building has a tiled roof and a decorative lattice pattern on the wall. The scene is captured in a slightly blurred, vintage style.

Block the View, Not the Light

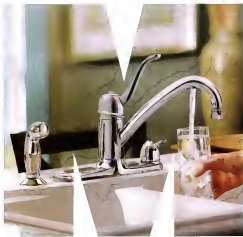
The Memphis raindrops/gleams from/to the sidewalks, we find wonder child of hope/illusion. They then occurred last August summer on the meeting double bridge. In-joints and four in-the-cloud. Identification fades the sidewalks to the street. I was overwhelmed feeling my hole run around by the shadows," says Lattimer that by attaching the ribbons of their four carnets. The couple entered the wettest lot/the windows and their children,

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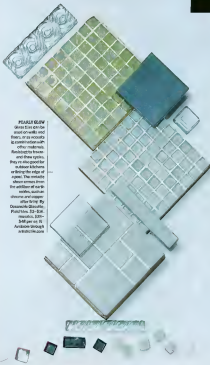
Clear Winners

» Recycled glass tile is beautiful, affordable, and responsible

BY CAITLIN GORDON
PHOTOGRAPHS BY ANITA CALDER

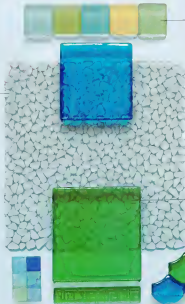
PERHAPS WE WOULDN'T be so quick to chuck out all those empty wine bottles and beer bottles and soda bottles and beer bottles if we knew what they were capable of. The people who make these tiles know. That's why they gather up your cans, glass, glass, glass, glass, and crush them, crush them, crush them, before bringing them back to life in something you're proud to display on your walls and floors.

Glass tile comes subtly or brightly colored: clear, translucent, or more, molded into shapes or decorated with designs, even painted into designs like pebbles in the seashore. And when you set it to peek up a backsplash, line a shower stall, or bring depth to a floor, you're not only adding style to your house but also making landfill a little lighter.



PEARLS GLOW
Glass tiles can be used on walls and floors, or as accents to complement with other materials. Available in many sizes and shapes, they're also good for outdoor kitchens or lining the edge of a pool. The versatile glass comes from the addition of water, soda, ash, and copper after firing. By Diamond Glass Tile, Portland, OR. \$25-\$30 per sq. ft. Available through all tile stores.

GLAZING
As you can see, each of these individual glass panes is hand-painted. They are presented in a 12 by 12 mesh array. Once installed and sealed, the panes are invisible. \$20-\$25 per sq. ft. www.jeld-wen.com



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Transparent like the clear glass panes and the clear glass panes, the beautiful bubbles are made of glass and are sealed in a grid-like pattern, which makes them good underfoot. \$20-\$25 per sq. ft. www.jeld-wen.com



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Cool Customers

» Compact fluorescents save big money and look good doing it

BY JASON CARTER
PHOTOGRAPH BY MARK WEISS

IT'S TIME TO FLIP THE SWITCH on these flickering, humming fluorescent pals you used to. Today's best bulbs—known as compact fluorescents, or CFLs—spare the same energy efficiency and long life they smother, shapelier packages. And whereas the go-to light once used by old-school tubes has all the charm of an old-school gas, these modern brights have roommates that create warmer and whiter hues, making them a lighter shade of choice for nearly any decor-savvy home.

CFLs also best standard incandescents. Sure, they cost more at the register, but they last up to 10 times longer than their cheaper cousins once you get 'em home. And they're cooler, meaning they take jobs costing up to 75 percent less energy than a traditional bulb. All of that translates to as much as 60 bucks in savings over the life of each bulb. Multiply that by 30 (the average number of fixtures in a house), and making the switch starts to seem like a pretty nice return.



7 SMALL CLASSIC
Good for reading and task lamps. \$9
epix.com

8 GLOBE
A 6,000-hour bulb—perfect for use in outdoor spaces like porches. \$6–\$8
epix.com

5 THREE-WAY
Three wattage settings (35, 55, 60) make for easy mood lighting. \$12–\$14
epix.com

12 FULL SPECTRUM
Replicates natural light. Reduces eye strain. \$12
epix.com

11 BULO
Invisibly unobtrusive. A bulb that blends in with any room. \$10
epix.com

13 REPLASTER
FLUO
Covers a powerful beam. Best for use in high ceilings. \$25
epix.com

1 PROTECTOR-PROOF
Good for use in wet locations. \$10
epix.com

3 DEW-DROP
Good for accent lighting in a home. \$10
epix.com

10 MINI SPOKE
Good for use in small spaces with little clearance. \$2
epix.com

4 BARREL-LINE
Decorative bulb for use in wet locations or outdoors. \$5–\$7
epix.com

9 PARTY
Honey for single lights in the bar. The twisted design creates a soft, but bright glow. \$5
epix.com

6 CLASSIC
Good for general lighting and outdoor fixtures. \$5–\$7
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BONUS

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Most states demand annual vehicle inspection of cars and trucks, in particular the older, high-mileage ones. While the general requirements do vary from state to state, there are a few basic elements, like emissions, that will be inspected in most cases.

Taking some simple steps ahead of time to ensure that your vehicle passes with flying colors will save you time and effort over the long run. Below are a few tips to make this process as seamless as possible.



BEFORE INSPECTION

Keep Receipts Test the vehicle's horn.

Bright Idea See that interior and exterior lights are all working properly.

Wear & Tear Check your tire tread depth to ensure they all pass wear tests.

Up and Running Schedule a tune-up and any other regular maintenance each at a brake check. If necessary, include an inspection for the exhaust components and sensor, particularly the oxygen sensor.

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ON TEST DAY

Inside and Out Make sure that your interior and exterior are in good shape.

Light Jog Drive ten miles just prior to testing. Ten to fifteen minutes of operation on a hot or cold day generally brings engine temperature up to normal. This kick the engine off also cools and often impacts emissions beneficially.

As Natural Keep your air conditioner, heater, and defroster off.

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Uncle Sam Wants to Pay You

» Tax breaks and rebates make saving the earth a little cheaper

BY KEITH PANDOLFI ILLUSTRATIONS BY MATTHEW RANDOLPH

A SIMPLE POSTCARD WOULD UP SAVER: Much Zimmerman more than \$2,000 on home-improvement costs last year. Zimmerman and his wife, Michele Freeman, were looking to weatherize and add a new high-efficiency heating and cooling system to their house in Austin, Texas, but the cost was off-putting. That is, until they received a snail from their local utility company offering details of a program that provides deep discounts and low-interest loans to qualified customers looking to make their houses more energy efficient.

The snail, Austin Energy, provided the name of an approved contractor who inspected the house's ductwork for leaks, added new weatherstripping to the windows and doors, and blew recycled newspaper

employment into the attic, all at a substantial discount. Astar Energy also provided a reimbursement for the new HVAC system, which saved the couple thousands of dollars. "It's strange, since we'd never even heard about that program until we received the postcard," says Zimmelman.

By now most people know that the biggest of getting green is balancing high up-front costs against eventual savings—both for your pocketbook and for the planet. But, like Zimmelman, you might not know that the federal government, local utilities, even banks are eager to help lean the bill.

Let's start with Uncle Sam. For the first 14 months, until the end of 2007, the federal government is offering consumers tax credits of up to \$1,000 toward the purchase of energy-saving appliances and products, such as insulating windows, doors, and roofs. See

www.irs.gov and photovoltaic roof panels are good for credits of up to \$2,000.

State and local governments, along with public and private utilities, are jumping on the green bandwagon, too, offering energy-conscious consumers a variety of tax breaks, rebates, discounts, and grants. The Arizona House of Representatives, for example, just approved a program that lets homeowners install solar energy devices without any increase in their property taxes. Oregon and Montana offer state tax credits for those who invest in wind power or heat-energy ventilation systems. But you don't have to incorporate cutting-edge technology to reap benefits. An Ohio state loan program provides interest-rate reductions of up to 50 percent for residents who take on loans to buy Energy Star appliances.

Rebates are another very serious aid helping to defray the cost of investments you've located. The utility company in Chatham County, Washington, offers \$1,000 rebates for solar water heaters, which can pay you

\$4,000 or more. And New Jersey is teaming up with its utility providers to create up to \$450 off the cost of new hot water and air conditioners. Some states are even giving people money just to educate themselves and their neighbors about going green. For instance, Connecticut recently unveiled a "Community Incentives Grant Program," a pilot program that gives contractors a \$5,000 block grant to increase public awareness of renewable energy technologies. (For a state-by-state breakdown of incentives, visit www.austriaca.org.)

For state and local governments, as well as public-private utility companies, offering these incentives is a nice way to help contractors—and residents—happy. And for generally overall utility companies, which aren't exactly known for their benevolence, it can make good business sense. Despite the initial cost of providing the incentives, the companies increase their bottom line by luring in new customers and retaining the ones they already have. And the

decreased demand for follow-ups from those using alternative energy sources such as solar or wind power might keep providers from having to build pricey new power plants.

Whatever the reasons, Zimmelman and Foxman are just glad they got their postcard before shelling out for new equipment. "We would have had to take out a three-year loan at about 6 percent interest, so they saved us almost \$2,000," says Zimmelman, adding that the new system is also saving him about 10 percent a month on utility bills. "They even gave us a free programmable thermostat, so we can save money on cooling costs when we're not at home. It's pretty good deal." ■



Green Mortgages

Now a little known ERM's initiative brings you the house of your dreams

The more time goes by, the more it seems Jimmy Carter was on to something—at least when it came to his energy policies. Not only did our 39th president and all-volunteer on the White House (Ronald Reagan had them torn down like the Berlin Wall, a few years later), he also ordered the mortgage finance company Fannie Mae to introduce Energy Efficient Mortgages (EEM). Also known as "green mortgages," they are still available today, but not too many people know about them.

Lenders like Wachovia and Countrywide Mortgage will sign off on bigger loans if qualified homeowners agree to put the additional money toward energy-saving products, such as improved insulation, new furnaces, app-rated windows, or Energy Star equipment. The thinking goes like this: Efficient homes = lower utility bills, thus the increased power of the borrower's payments might qualify them for better loans.

"People can finance 320 percent of the improvements, as long as they don't exceed 15 percent of the value of the home," says Martha Le Desormais, a senior product developer with Fannie Mae, which buys mortgage loans of up to \$400,000 from ERM lenders. This extra loan money is held in escrow until the improvements are made. To qualify, you'll need to have an energy rating done on your house to see what kinds of savings can be expected and determine the best ways to make good, properly more energy efficient.

For more information, visit thefannie.com/thefactbook.

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TOOLBOX



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2. MUMFORD'S RULE

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3. PLUMBING

Don't let the Pyramex's friendly green plastic look fool you. This 2-foot version of solid brass is a scrupulous means of checking that walls are vertical and doorways are square. \$20. hewitt.com

Keepers

Tools your kids will fight over when you're dead

BY HARRY KATZ
 PHOTOGRAPHS BY NIGEL GAX

WHEN YOU GET ON THESE PAGES ARE MASTERPIECES of the toolmaker's art, patiently crafted from fine woods, gleaming metals, and thick steel. Sure, they're meant to be used, but we think they're equally as satisfying just to look at. They have beautiful character. After all, even if your whizzing, fast words won't be some thing like, "See, I want you to have my low-angle block plane," you can still appreciate the quality of the material involved. On page 74, one of the finest examples we've ever seen.

Tools of this caliber don't come cheap—you won't find a tradesman's level in the next aisle over from the party knives at the hardware store—but we're talking about a legacy here. And if we can be sentimental, it's worth noting that when you hand down a vintage DeWalt now as a new model Wrench, you're leaving your kids a keepsake that they know means something to you. It'll mean something to them, too. Even if they don't know how to use it.

SMOOTH AND SOLID

It can take two weeks to put together one of these bench planes. The wait for a luxury may be even longer—some models are backlogged up to 8 months.



1. BENCH PLANE

A solid yoke helps the blade in this bench plane slice through the wood at a 50-degree pitch. It doesn't hurt that the maker's custom fit the planes to the user's hand—up to 10 sizes. Also, Blackwood—the owner's brand—Dovetail joints makes the steel safe to the steel's iron deck. \$2,000. www.blackwood.com

2. TACKLE PIONEER

This plane's pitch adjusts between 30 and 50 degrees, which means it can do the work of a low angle plane, a high angle scraper, and everything in between. Such versatility allows you to compensate for changes in the handwork and give direction of the wood's grain. \$2,500. mysterytools.com

3. SHOTGUN SHOOTER

So called because of its resemblance to a shotgun, this 8-inch long plane has a hand plane design that allows multiple gripping positions. Users say that holding the body directly in front of the hand plane allows for better control in wood grain. A feathering on the handle allows for better control. \$2,500. www.shotgunshooter.com

4. SHARPENING TOOL

At just 1 1/2 inches wide, the entire plane fits into the palm of your hand or your back. It's made of steel and has a hand plane design that allows multiple gripping positions. Users say that holding the body directly in front of the hand plane allows for better control in wood grain. A feathering on the handle allows for better control. \$2,500. www.sharpeningtool.com

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AN EXACT SCIENCE

The makers of these precision instruments craft and assemble the pieces by hand for a level of accuracy that mass-produced versions can't match.



1. SPIRIT LEVEL

Known for its accuracy, the classic bubble level dates into Rome and lends its name to precision tools. It features a combination spirit level (left) and a revolving protractor for calculating angles relative to 90 degrees (right) with a carrying head for network (left) \$350; stanley.com

2. WOOD LEVEL

Although wood level systems have largely abandoned wood shims for steel and plastic, Chris still favors them. But do lots of cherry and maple and poplar (left) will still do it. \$200; chrislevel.com

3. SHIP

The Jumeau shipmaker's map, handcrafted in France since 1844, has a unique grade for virtually effortless wood shaping. Grading tool or "shiping" (right) built by hand, produced in small quantities and sold by mail order and ship, made in France. \$100; jumeau.com

4. SHIP KNIFE

A hand-carved pocket knife made by a master French craftsman, it plays a key role in shaping, planing, and smoothing wood. The knife, made in France, is sold by mail order and ship, made in France. \$100; jumeau.com



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The patented "pat-in-lens" design provides light through the tube during low light hours.

Show Dark Rooms the Light of Day.

OOL tubular skylights make it easy to bring soft, natural light into any room—even in small spaces where standard skylights won't fit. Ideal for kitchens and bathrooms, allowing you to add light without sacrificing privacy. Brighten up to 150 sq. ft. with a 16" tube, or 380 sq. ft. with a 14" tube. Leakproof flashing fits asphalt, tile, slate, and wood shake roofs. The OOL Tubular Skylight can be installed in an afternoon. See the OOL website for installation details. OOL Tubular Skylights: Daylight for Dark Spaces.

• OOL Tubular Skylights qualify for energy efficiency tax credits.

• Tubular Skylights are recommended for rooms without windows in the NAHB Model Green Home Building Guidelines.



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HOW IT WORKS

HYDRONIC RADIANT SYSTEM

WHAT IT IS

An all-weather home heating system that turns water into hot radiators, warming living spaces without uncomfortable hot or cold air pockets.

HOW IT WORKS

Hot water is pumped from a boiler through a loop of flexible tubing embedded in the floor.

WHY YOU'D WANT ONE

Creates lower floor temperatures, the discomfort of cold floors and warm, cozy walls.

WHAT TO LOOK FOR

Multiple heating zones: Allows for water to flow from the manifold of water being delivered to different rooms.

Outdoor reset control: Slows water and lowers the amount of hot water flowing through the tube as it responds to changing outside temperatures.

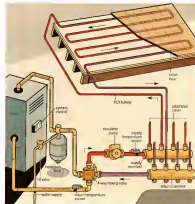
PEX tubing: Specially treated polyethylene comes in that works for hydronic systems. Under proper installation, it won't corrode and can be installed in less than an hour. A range of fittings, including the choice of tees.

WHAT IT COSTS

\$100 to \$150 per sq. ft. for installation. In general, expect to pay 50 percent more for a hydronic radiant heating system than for conventional forced-air heat.

WHERE TO GET IT

No one manufactures supplies all the components for hydronic radiant heating. You need a good heating contractor to put a system together. Will electric radiant kit easy to install? See [ool.com](http://www.ool.com) for a list of manufacturers.



Radiant Floor Heating

» Keeping your feet warm saves energy as it provides the ultimate in comfort.

BY JOSEPH A. KOSHER ILLUSTRATION BY KIMMY CAMPBELL

THE BEST HEATING SYSTEM A HOUSE CAN HAVE is the one you don't notice is there. No radiators clanking as the night. No vents whooshing like a jet preparing for take-off. No dust spewing ductwork to run up your allergen bills. Just an even blanket of heat, right where you want it.

That's the appeal of radiant floor heating, says Ted Old Moore plumbing and heating expert Richard Tiedeman, who has long been a fan. "It's only available," he says. But a radiant floor system has more than just aesthetics going for it. It's also a highly efficient way to heat a house, increasing comfort as it reduces energy costs.

In a radiant setup, the warmth is supplied by hot-water tubes or electric wires

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It's a caulk.



It's an adhesive.

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caulk. See top.

100% POLYSEAMSEAL
100% IT'S ALL DOING

UPKEEP

FROM THE TODAY'S JOB SITE

The Cleaner Cleanup

» Asbestos, lead, and mold: How to responsibly rid your house of three major health and environmental hazards

BY MAX ALEXANDER PHOTOGRAPHS BY RUBENLA KEYE



FROM THE OUTSIDE the house looks innocuous enough: a typical two-family with a cream brick white-painted stoop and siding scribbled with colorful lines of ivy. But wait a second—why ardent guy going in the back door wearing a white Tyvek suit? And why is there tightly taped, double-thick plastic sealing off the kitchen from the rest of the interior?

Yesterday you expect the removal of a 1950s vinyl floor—one step in the renovation of the new *The Old House* TV show project house, now sitting on PBS—no requires crew exposures and dust-filter respirators. But then, most people don't expect their old floor to be loaded with asbestos.

Along with lead and mold, asbestos is one of three big household health threats that can become even bigger when disturbed or exposed during a renovation. And while having any one of these can be bad for you, so can getting rid of it. "We've seen all kinds of materials being used to remove contaminated products, some of which are truly new contaminants," says Gary Byrne, best-known asbestos expert at the University of California, Berkeley.

Responsible abatement pros, and less-often chemicals and methods, can help you achieve your goal of a healthier home. Here's what you should know if you discover any of these problems in your house.

ABATEMENT involves the using those tiles at the TODAY TV project house means a whole-house lead and asbestos abatement crew must do the removal.

SWEEP as an asbestos abatement job starts with two layers of glass and taped plastic on the walls and ceiling. An air lock will eventually remove this space from the rest of the house.



Lead and asbestos removal are highly regulated. Not so with mold, so be sure you choose a company experienced in both cleanup and prevention.

ASBESTOS

• The problem: A mineral relied for fire insurance and tensile strength, asbestos can cause scarring of the lungs (asbestosis) or cancer when its fibrous fibers are inhaled. Banned from building materials in 1972, it can still turn up in the aforementioned floor tiles, as well as in insulation, pipes, caulk, ceiling tiles, caulk, and dusts of other products.

• The best solution: As long as your

residence won't disturb it, the EPA recommends not to interfere with asbestos that isn't "friable"—meaning it doesn't crumble when touched and isn't in material that's cracked, chipped, or flaking. Income penalties, you're allowed to remove nonfriable asbestos yourself, provided you follow strict guidelines. (That's not the case in the TCM TV job site, where state law requires that the work be done by a pro.)

Visible asbestos, on the other hand, cannot be removed by a homeowner. And it should be dealt with anyway where it can be easily disturbed—say, around a furnace ductwork—whether by your remodeling or not.

The typical method is to isolate the area, using double layers of taped and glued plastic, and set up a machine to create a vacuum so that no contaminated air escapes the enclosure. Once abatement pros remove the material, they double bag and seal it in a lead-lined container to handle asbestos. Cleanup

involves HEPA-filtered vacuums, a soot scrub-down, and disposal of debris in layers of plastic sheeting, after which the space must be sealed for 24 hours before the job can be considered done.

A new option lets you encapsulate friable asbestos with a spray on plastic cement that fills the space and seals it into a solid, nonfriable version, which can then be left in place.

Next, less toxic asbestos are also being used to insulate the electric or vinyl containing central heating. Coming through the strong asbestos used to repair to petroleum-based and ceramic solvents. These products and their residues can send off noxious fumes, which are not filtered by the air machine. They can also damage underlying materials, like wood floors. Many companies, including Eco-Tech, which is handling the job at the project house, now use ceramic-based matrix resins derived from oranges and lemons, which are biodegradable, free of chlorofluorocarbons, and nontoxic.

LEAD

• The problem: When subbed as an anti-radiation lead can cause brain damage, digestive disorders, hearing problems, autism, even death. Children under 6 are most susceptible, and who must be kept away from "lead-based materials," like the painted windows around windows or doors. That's not the case in the 1973, lead was added to paint in white or lead, more vibrant, and quick drying. That's not the case in the paint, however, which has been painted over recently, including by a professional who got on the job during window, scraping, or stripping. You shouldn't try lead yourself; the EPA says homeowners are not allowed. Instead, contact a licensed professional by calling the National Lead Information Center at 800-424-LEAD.

• The best solution: In some states, homeowners can remove lead paint themselves if they follow guidelines, including using HEPA vacuums and wearing expensive occupational liquid strippers,

SMALL CHILDREN are at risk for ingesting lead when they chew on windows and/or moldings that have lead paint on them.



which keep the particles wet and out of the air. Sanding and dry scraping, kick up lead dust. Use a vacuum, biodegradable strippers, such as Eco-Tech's Strippie, or one with refined citrus oils and no petroleum solvents. An abatement strip, such as the Hyperflex, heats paint enough to separate it from the wood for easy scraping but not so much as to create harmful vapors.

Once the paint is gone, you still need to clean a heavy residue. Some pros use tris(hydroxyphenyl) phosphine (THP), which is broken down by carrying it into lead phosphate. But THP is poisonous—more so than lead—as it is—and lead phosphate is a suspected carcinogen. Instead, try a phosphate-free, biodegradable detergent, like Lead-Away, which attacks and softens lead dust. The removed paint, and any residue you use for cleanup, can be disposed of with the regular trash.

Of course, the safest solution is to not get any lead paint at all. If you don't need to get the underlying work done, then you can encapsulate lead with a special primer, such as Chim Guard, that seals it and prevents a toxic residue from leaching.

MOLD

• The problem: Airborne mold spores can aggravate asthma and allergies and cause liver-organ symptoms, breathing problems, and, in rare cases, lung infection. Many people believe that biocides or chemicals—like "bore



MOLD isn't noticeable until it's in your lungs, causing symptoms in asthmatics and allergy sufferers and possibly leading to lung infections and other chronic health problems.

killers"—is also responsible for debilitating health problems, such as memory loss, but the Centers for Disease Control has yet to confirm a link.

Mold will thrive anywhere it has moisture and food (i.e., organic material), a combination found almost anywhere when the relative humidity is above 60 percent. Look for it in attics, basements, and poorly ventilated crawl spaces, as well as where mold spores of mold in the walls as the TV project, thanks to water on the screen being, on the inside of beams, in carpets, even growing inside them. The best way to detect it is by sight and smell.

• The best solution: Insulated mold-out breaks—under 10 square feet—on hard surfaces can be cleaned up by homeowners with a bucket of diluted bleach or soap and water. Before tackling mold, wear eye gloves and a type N-95 respirator. (Or porous socks from the work, better as the best choice, because even after they dry, they continue to inhibit mold growth.) Once the mold is gone, you can paint the surface with a mold-resistant primer like Kiehl.

When mold affects a large area of wall or framing, a mold deodorizer, or two generations into carpet or drywall, removal is a job for a pro. (Most companies that do asbestos and lead abatement also deal with mold.) Of course, just as important as cleanup is fixing the source of the moisture that caused the problem in the first place, which

could mean adding ventilation in the attic or basement, installing a bathroom fan, or fixing leaks around roof and windows. Luckily, the mold in the TV show house was easily dealt with—a leak seeping into the wall and in a repair to the drain took care of the problem. And when the plastic is removed and the kitchen air dried, the homeowners can take comfort in the knowledge that their place is not just more beautiful but healthier, too. ■

ARE YOU IN DANGER?

The best way to determine if you have asbestos, lead, or other hazards as you choose is with a professional inspection. Many inspectors are also certified by the state to perform lead and asbestos testing and to take samples for analysis. Don Steward, president of Pileto Pest, a nationwide inspection company, says you can expect to pay around \$200 for each sample taken. (Home could require just a few samples per room, depending on size and variations in materials.)

There are four, a professional known as an industrial hygienist can show up a comprehensive investigation place, with digital photos, for about \$1,200. (Note: The hygienist or the inspector should be someone who also performs asbestos, which could present a conflict of interest.)

For the actual abatement, you may need to hire a licensed abatement pro, depending on your local laws. The cost—ranging between \$2,500 and \$5,000 for a two-day job, according to Eric Peterson, president of Eco-Tech—may seem high. But keep in mind that the contractor has the added expense of specialized training and insurance for this dangerous work. A small price to pay to maintain your family's long-term health.



FEARFUL ASBESTOS, which turns to dust easily when handled, is commonly found in insulation around furnaces and their pipes.



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HOMEOWNER'S HANDBOOK WEEKEND PROJECT SERIES

Laying a Cork Floor

BY ALEXANDRA RABINOVITZ PHOTO BY ADRIAN SMITH

IT'S A LITTLE AFTERNOON IN THE MORNING, but already an episode of *Home Improvement* is on, and could these do-it-yourselfers do it themselves? The answer is yes, if you're already somewhat handy with a few basic tools and a good measure of patience.

The cork flooring is made of tightly packed, compressed cork. It's a porous material that's very hard, but the discolor and staining that can be caused by liquid spills is inevitable. And, while it's a good idea to use a cork underlayment, it's not a perfect solution. In Portugal, cork is used for everything from wine barrels to boat hulls. It's a natural material that's been used for centuries. Many homeowners are looking for a natural, eco-friendly flooring option. Cork is a natural material that's been used for centuries. Many homeowners are looking for a natural, eco-friendly flooring option. Cork is a natural material that's been used for centuries. Many homeowners are looking for a natural, eco-friendly flooring option.

COST
\$2 to \$25 per square foot, depending on the type of cork and the quality of the underlayment.

TIME
2 to 3 days for a 10- to 15-foot square.

DIFFICULTY
Very easy. Most homeowners can do it themselves. However, if you're not sure, it's best to hire a professional.

For more details, visit www.remax.com or call 1-800-RE/MAX.

FOR COMPLETE INSTRUCTIONS
TURN THE PAGE AND UNFOLD

TOOLS FOR THIS PROJECT



STRAIGHTENER
AND CLAMPS



ROTOR to cut flooring
get into the walls can
be made (200-200)



FISH-CUTTING
BACKLASH IN FIBER
Saw to form door casings



HAMMER
or Mallet



PRY BAR



INTER LOCK
CHILLER/DRYER to cut wall
install door molding

YOU WON'T WANT TO MISS



HOME SHOW, SEPTEMBER 7-24.

FOR HUNDREDS OF THE MOST JAW-DROPPING, AWE-INSPIRING

IDEAS SUCH AS (deep breath): CARPET THAT RESISTS ODORS;

HUNTER DOUGLAS WINDOW SHADES



THAT OPEN AND

CLOSE WITH A REMOTE CONTROL. (a victory for couch potatoes):

THE CUB CADET, ALL-IN-ONE SWEEPER-CHIPPER-MOWER; THE



WILD CHERRY  **LG WASHER THAT USES STEAM TO CLEAN**

AND REDUCES ODORS AND WRINKLES IN MINUTES (throw out the



(con): THE ENERGY-EFFICIENT ANDERSEN WINDOWS THAT

REDUCE WATER SPOTS BY UP TO 99%*. A CEILING FAN THAT

CREATES MORE AIRFLOW WITH LESS ENERGY: VERANDA®



DECKING AND FENCING THAT NEVER NEEDS STAINING.

PAINTING, OR SEALING; AND EVEN A REMOTE CONTROL MEAT

THERMOMETER FOR GRILLING (*one burger coming up*)—TO NAME A FEW.



HOME SHOW 06

AT YOUR NEIGHBORHOOD HOME DEPOT® • SEPTEMBER 7-24

When you're done looking and asking over everything you see in-store, be sure to check out our special innovation demonstrations and our interactive virtual home online at homedirect.com/home/show.



What can she do
with your feelings?

*Indicates where results were collected by ourselves. Available on Amazon® and BarnesandNoble.com.

See also for example: GUNDEL, WOLFF 2003, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2

{ overview }

INSTALLING A CLICK-TOGETHER floating floor is a simple process, but a few guidelines need minding. To begin, while cork flooring is appropriate for most spaces in your house, its unglued seams will absorb water, which can swell and potentially warp its divider planks. That rules out its use in wet rooms such as baths.

And like other laminate materials, cork expands and contracts with changes in weather. Expect to may only move a 1/16", but that adds up over the width of an entire room. This cumulative effect requires you to leave a 1/2-inch space around the perimeter of the flooring. Of course, for a finished appearance you'll want to hide that expansion gap. If your walls have baseboard, you can seamlessly pry it off before you start, then run the flooring to within 1/2 inch of the wall and install all the base atop the new floor. An easier option: Leave the baseboard in place, lay the floor with that half-inch gap, and then cover it with shoe molding. If your baseboard already has shoe molding, you'll have to remove and reinstall it.

Manufacturers provide a special tapping block that, when pushed to a plank and knocked with a hammer, helps lock the tongue of one piece into the groove of another. Make sure you use this block rather than a wood scrap or a direct hammer blow, both of which may damage a plank's soft particleboard backing and make a tight join impossible.

Finally, while only all cork flooring comes prefinished and goes down in an afternoon, a few companies suggest applying an extra protective finish coat of polyurethane after the installation. And most manufacturers warn you not to use any tools you unpack all the material 24 hours before starting a job to allow it to acclimate to its surroundings. So keep your hammer in mind—you may need to wait to install the flooring and then take the room out of commission for a day or two.

shopping list

1 | FLOORING Measure the square footage of your space, then add 10 percent for waste. Be assured by off cuts. The flooring comes in boxes of laminated planks, so you may end up with extra.

2 | MOLDING To match the expansion gap, most manufacturers advise a shoe mold of 1/2 inch wide over the perimeter of the room and add 10 percent for waste for off cuts. Try to buy the molding in lengths that will minimize spliced joints along a wall.

3 | 1/2-INCH SPACERS You can make them by cutting open some pieces of plywood.

4 | 1/2-INCH FINISH NAILS to secure the baseboard.

5 | POLYURETHANE SHEETING Some are moisture barrier. If you're installing the flooring over concrete, get first planks and you'll also need shoe tape to connect to base.

{ step by step }

Prep steps 10

Look for any vertical trim that will need to be cut away to allow the new flooring to slide beneath it. At doorways, place a new plank atop the saddle (the threshold) and bolted to the door stops. Using a flush cutting saw, cut it in steps—but not the joints—on either side of the door above the saddle (FIG. 1). Carefully pry up the saddle before installing the flooring. Also cut the crown on the wall around the door using a cork-particle-pulverizer to trim it in.

In niches installed on, remove the cabinet's laminate if possible so you can run the cork under the cabinet. If the lack is awkward, pin in moisture flooring up to within 1/2 inch of the sole. This gap can be hidden under the finish step.

In finished over concrete, such as a basement, acquire the removal of any baseboard so you can cover the slab with 1/2 inch polyethylene sheathing and run 1/2 inches up the wall. Overlap the sheathing a seams by 6 inches and seal them with clear tape.



4 Trim the planks for the first course

Identify the largest unit on a wall in the room. This will be your starting wall. Measure the distance between it and the opposite wall.

From this number, subtract 1/2 inch to account for the expansion gap and divide it by the width of cork plank. The resulting figure represents the number of courses needed to cover the floor.

If you find that the last course will end up being less than half a plank, both the last course and the first will need their widths trimmed to match the layout. To determine how much material to cut away, add the width of the last course to the width of a plank. Divide by two. That measurement will be the width of your first and last course. Using a square, rip the planks in the first course to this width.

If you don't need to rip down the planks in the first course, use square to trim off their tongues (1/2") to allow you to leave an unobstructed expansion gap at the wall.



Install the first course 10

To place the first course together, lift one plank off the floor at an angle, slide it in and into the end of another plank and gently press down until the tongue and the groove click together (FIG. 2).

Continue joining planks end-to-end until the first course is complete. If you need to cut the last piece to length, use a square guided by a clamped straightedge.

Place 1/2-inch spacers against the starting wall and slide the entire first course, groove side facing toward you, tight against the spacers (FIG. 3).

Since each plank is unique in color and pattern, sort through and consider how you match and group your flooring.



BUILDING SKILL

Learn how to lay flooring against walls and around doors.
Working page 21

Use shoe tape to attach shoe molding to wall.

Use tapping block (from provided by manufacturer).

Run flooring under cabinet and base.

Cover expansion gaps with molding.

Shove planks together to connect.

Shove 1/2 inch spacers to leave an unobstructed gap at wall.

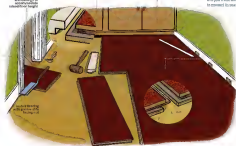


ILLUSTRATION BY GREGORY HEINE

4



Install the rest of the field

If you find it's not the first plank in the previous course to length and the leftover piece is more than 30 inches long, use this as the first piece. If the rest of the course will be made up of the same plank, cut the end of the plank against a spacer positioned in the end wall, then push the tongue of the plank up into the first course.

Place the manufacturer's tapping block against the outer edge of the plank, lifting it around the groove. Use a hammer or mallet, gently tap the tapping block (LEFT) to compress the tongue and groove to click together.

Install the next plank by sliding it into the previous plank, then tapping it in place against the previous course. Continue installing planks until you have filled the field.

TIP To keep the floating floor from moving as you lay in the following courses, weight it down with the stacks of uninstalled planks.

Install the last course

If necessary to fit the final course, tap down the planks to width, taking away from the groove side. Remember to account for the 1/2-inch expansion gap.

Angle each plank into place and let it drop flat to the floor. To click and lock it to the previous row, hook it with a pry bar and pull the bar toward you (RIGHT).

Use a table saw for cleaner, quieter cuts, especially if you're covering a large area.



5

Trim out the floor

Measure the walls that require shoe molding and cut the molding to length using a backsaw and miter box. For corners, cut the molding at a 45-degree angle.

Never install molding to the flooring, which would prevent the cork from floating with changes in the weather. To ensure that your nails don't drive into the subfloor and so prevent the molding from splitting, cut the shoe molding 1/4 inch through the shoe molding, using a No. 100 bit (LEFT).

Fasten the molding to the baseboard with 4d nails.

Reinstall any doorway saddle. If the saddle doesn't now sit flush on the floor in the next room, fill the gap with a narrow longitudinal flat block or spacer for seamless sliding.

If you removed the cabinet track to allow installation, fill the hole by the thickness of the new floor and reinstall it over the cork.



6

the parts

There isn't too much variation in the color of cork together cork flooring—only a few styles come in anything outside a natural earth tone palette. But the designs range from simple, uniform patterns to busy “grain” and geometric patterns. Here are some of our favorite offerings.

- A. CORKWORK from Exporco, \$37
- B. HANDBOOK from Anichini, \$5
- C. CORKSTREET from Natural Cork, \$790
- D. STRATA from Exporco, \$8
- E. BONDAGE BONDAGE from Anichini, \$3.50
- F. AURORA from Exporco, \$11
- G. TROPICAL WHITE from Anichini, \$5.40
- H. FLECK from Anichini and Cork, \$780
- I. BARK from Anichini, \$8
- J. CREAM from Anichini, \$8

MSD products approximate per square foot.



For more on any Islime Bowls flooring: www.islime.com/wholesale

the NATURAL CHOICE

Atwood Manufacturing's design studio has created a line of furniture and lighting that will take any space with a large dose of natural style. The company's designs are made from recycled materials and are environmentally friendly. The company's designs are made from recycled materials and are environmentally friendly.

ATWOOD MANUFACTURING

1. **More Than One** This is a line of furniture and lighting that will take any space with a large dose of natural style. The company's designs are made from recycled materials and are environmentally friendly.

2. **Light and Shade** This is a line of furniture and lighting that will take any space with a large dose of natural style. The company's designs are made from recycled materials and are environmentally friendly.

3. **One More** This is a line of furniture and lighting that will take any space with a large dose of natural style. The company's designs are made from recycled materials and are environmentally friendly.

4. **Light and Shade** This is a line of furniture and lighting that will take any space with a large dose of natural style. The company's designs are made from recycled materials and are environmentally friendly.

5. **One More** This is a line of furniture and lighting that will take any space with a large dose of natural style. The company's designs are made from recycled materials and are environmentally friendly.



5 Up to Speed Salvaged vinyl-light glass pats a new look in a handcrafted amber lamp with a low-voltage 25-watt bulb in a mag-dielectric aluminum housing. \$279. greenlightdecor.com

6 Glass Culture What you like a glass object? At last! Kely

Gabriels, sustainably harvested wood, water-based glass-free or white-enamel compounds (GSG) top-lined aluminum, and various porcelain-made painted and lacquered are available in a variety of finishes and colors. \$100 per square foot. www.glassculture.com

7 Dives Up the Work Area When it's time to take a rest, take a break. The 12-inch deep, 12-inch wide, 12-inch high stainless steel sink is made of 12-inch deep, 12-inch wide, 12-inch high stainless steel. \$100 per square foot. www.dives.com

8 Black & White The 12-inch deep, 12-inch wide, 12-inch high stainless steel sink is made of 12-inch deep, 12-inch wide, 12-inch high stainless steel. \$100 per square foot. www.blackandwhite.com

9 Where We're Meant The 12-inch deep, 12-inch wide, 12-inch high stainless steel sink is made of 12-inch deep, 12-inch wide, 12-inch high stainless steel. \$100 per square foot. www.wherewere.com

10 Keep It Quiet The 12-inch deep, 12-inch wide, 12-inch high stainless steel sink is made of 12-inch deep, 12-inch wide, 12-inch high stainless steel. \$100 per square foot. www.keepitquiet.com

11 Great Along The 12-inch deep, 12-inch wide, 12-inch high stainless steel sink is made of 12-inch deep, 12-inch wide, 12-inch high stainless steel. \$100 per square foot. www.greatalong.com

12 This Will Take You The 12-inch deep, 12-inch wide, 12-inch high stainless steel sink is made of 12-inch deep, 12-inch wide, 12-inch high stainless steel. \$100 per square foot. www.thiswilltakeyou.com

13 The New Within The 12-inch deep, 12-inch wide, 12-inch high stainless steel sink is made of 12-inch deep, 12-inch wide, 12-inch high stainless steel. \$100 per square foot. www.thenewwithin.com

14 Counter Culture The 12-inch deep, 12-inch wide, 12-inch high stainless steel sink is made of 12-inch deep, 12-inch wide, 12-inch high stainless steel. \$100 per square foot. www.counter-culture.com



RIGHT While the shingled exterior reflects the traditional steep roofs and architectural supports of Craftsman-style cottages built a hundred years ago, the interior is all about "moments" that offer the greatest structure support at the lowest cost to the environment. CRIPPLED is designed with character and built with local and natural light in mind.



red

yellow

blue +

green

The primary goal was building a house that rested easy on the planet. The color and comfort came naturally

By Joseph D'Agostino
Photographs by Deborah Winslow Lavelle
Styled by Brian Carter



anatomy of an eco-home

CONSTRUCTION

- Built with a wall-to-wall distance of 16 feet and 6 inches, the house is a compact, efficient design.
- Exposed concrete floor is finished with a dark stain.
- Requires efficient lighting to keep the interior bright.
- Careful window placement is a must.
- Open ceiling is a must.
- Recycled materials for the structure.
- Local pine for the structure.
- Lumber for the exterior is a must.
- Flooring is a must.
- Low VOC interior and exterior paint.
- Bare floor is a must.



LIGHTING & APPLIANCES

- Low energy.
- Natural lighting is a must.
- Compact fluorescent lights are a must.
- A small kitchen is a must.
- A small bathroom is a must.
- A small bedroom is a must.
- A small living room is a must.
- A small dining room is a must.
- A small kitchen is a must.
- A small bathroom is a must.
- A small bedroom is a must.
- A small living room is a must.
- A small dining room is a must.

SYSTEMS

- Radiant heat and domestic hot water is a must.
- Whole house water filter is a must.
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EXTERIOR

- Protected and resistant to the elements.
- Layer of paint is a must.
- Water is a must.
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- Water is a must.



OPPOSITE: A low-VOC finish preserves the living room's wood floor while reflecting off glowing timber-lam light walls, a feature that also acts as a natural light source. Below: The house's open ceiling is a must.

all the way to the basement. "It's a must," says the owner. "I don't want to see the laundry done."

The open design has heating and cooling advantages as well. Though the basement and main floor are the only ones planned for radiant floor heat, and the master bedroom alone is outfitted with a single, ductless air conditioner, everything works together harmoniously. "It's warm, the heat travels to the third wall of the house," says Berk. "It's warm, and it stays down from the bedroom and into the rest of the house." That just isn't possible in a house with its possible interior walls, floors, and ceilings.

At every step in the construction, Moody and his crew used to go into a room and see how it looked to enhance the home's impact on the environment. They installed a porous concrete foundation that allowed moisture to pass through. They found the top two levels with 24 inches between the studs, not the conventional 16 inches, to reduce thermal expansion. They built the roof made out of locally sourced white pine, using wood harvested from two small trees instead of one mature pine. They painstakingly cut all lumber in such a way that they could use every single piece.

Later, they waterproofed the basement, so energy conservation, so too for air leaks with a blower door before spraying the space with a blown-in insulation. The master bedroom is a must, so too for energy efficiency and then the living room. "It's a must," says the owner. "It's a must."

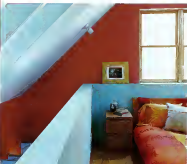
on the heating and cooling systems, Moody installed an on-demand, tankless water heater.

The finished house, wrapping up about months at about \$150 per square foot, plus the cost of the lot, takes an owner as much as it represents. Moody's list on completion, the dwelling was awarded gold status—the highest possible ranking—in North Carolina's Healthy Home program, an initiative that encourages green-built residential structures.

"People look at the house and wonder how it could get such a high ranking," says Moody. "It doesn't look weird. There's no solar panels," they say. "That's when Moody starts telling them about all the other things the house does. It's not a walking distance of down town shopping areas and restaurants, so the owner doesn't burn fuel driving everywhere. It's built within city limits, so it doesn't destroy natural habitat and avoid the need to run away from the middle of town. It's built on a lot that has been, and it's built on a lot that has been."

"For a house to be that," says Moody, "and the owner is, 'Well, it doesn't take much to go green.' And that's the whole point," Berk, who now works from his new home office every day, occasionally glancing up from the drawing board to survey the crew he worked so hard to protect, says, "It's a lot of little things adding up to a lot."

For a house to be that, says Berk, it takes a lot of little things adding up to a lot.



15

green projects for under \$500

Hang your clothes out to dry, wrap your pipes, let worms eat your garbage.
With these and our other easy, affordable ideas you can save energy,
conserve resources, and make your house a less expensive place to live

by Jeanne Huber photography by Bob Howard



● Build a clothesline

Next to your refrigerator, your dryer is likely the biggest energy-guzzling appliance in your house. And while we wouldn't ask you to store your food as a vintage rotisserie, an old-fashioned clothesline is actually a pretty good idea. (If that sounds too retro, think of it as a "solar dryer" instead.) You can buy a pulley set like the one pictured above at the hardware store. Or you can order the components online—clotheslineup.com has a wide range of pulleys and rope. But it's easy to make a traditional clothesline yourself using steel or galvanized treated posts for the uprights and bolls for the cross arms (which don't need to be pressure-treated). Simply notch the posts to secure the cross arms, set them in concrete, and run the lines away from each other. A 4- or 5-foot cross arm should give you enough room for five lengths of line. (For tips on how to make a post, go to thisoldhouse.com/hertobots.)
LOWEST: \$42 / HARDWARE: \$10 / 100 FEET OF LINE AND 100-WOOD CLOTHESLINE: \$17 / TOTAL: \$69

1 Add a tube-type skylight

There's at least one place in your house—a denuded wall, a north-facing bathroom or rear hallway—where you can't see what you're doing without turning on a light, even in the daytime. That's the ideal spot for a light tube, which lets you bring in the sun's rays without the hassle or expense of installing a conventional skylight. These so-called "sun tunnels" capture light through a plastic lens mounted on the roof, bounce it down through the attic inside an reflective tube, and beam it out through a plastic diffuser in the ceiling. (Now the inside ceiling up you see what appears to be a no-frills light fixture.) Some models have built-in sensors that let light in or night time (the same spot). But, you don't get a skylight, but you do have the energy loss associated with standard roof windows. Tube skylights are much easier to install because the tubing fits between roof rafters and from you then have to build a shaft to get the light through the attic. They're fairly easy to install and project. And they're not too expensive: a good tube costs in the \$500 cap to \$1,000 with a good tube, \$1,000 and 4 feet of 300" 500" / EXTENSION TUBES Two 20 inch sections at \$40 each / TOTAL \$300

DIYER
BONUS

For an extra \$100 and a little extra design, you can also get a tube skylight that can help you grow your garden. (See the article on page 100.)

2 Put a recirculating pump under the sink

As you stand around waiting for hot water to come at your bathroom sink—oh, worse, winter oil to be something else while the tap is running—what if you could just turn the sink off and let the water go back to the tank? Not just water, but all the energy that went into heating it. But let's say you just press a button and have hot water instantly. That's the world of a clever device called an on-demand recirculating pump, installed under the sink. The pump captures the hot water before it gets to the tap and shoots it back to the water heater. The process repeats until the water gets hot enough at which point the pump shuts off, you turn on the tap, and the steaming stuff flows. Obviously, this setup saves water. Less intuitively, it also saves energy. That's because the water going back to the heater is usually slightly warm, so reheating it takes less energy. And the pump moves water faster than a typical faucet, so which means less time for you to wait. (See the article on page 100.)

3 Insulate hot-water pipes

Without insulation, your house's hot-water pipes act as a giant radiator, transferring heat to the air so efficiently that any water in the pipes—no matter how hot—will cool down in 15 minutes. So if you wash your hands to soap dishes, then use the water to wash a pot, you'll have to wait for hot water all over again. The solution? Insulate pipes whenever you can reach them by moving them in rubber-argyle-style. (See the article on page 100.) The tubes come with adhesive, so you can stick them down the middle, so you just wrap them over the pipe and press the ends closed. Seal the seams with duct tape. Tests show that insulation can double the cool-down time in 1/2-inch pipes and triple it in 3/4-inch pipe. (See the article on page 100.) For more information, go to www.thermo-therm.com. (See the article on page 100.)

4 Plant deciduous trees

Plant trees now on the south, east, and west sides of your house and you can enjoy their shade for up to 10 years. In five years, they'll provide enough shade to let you run your air conditioner less frequently. And when the trees mature, they could save you as much as 40 percent on your cooling costs. Beyond shading your property, trees also help combat the "heat island" effect of that concrete urban area, where concrete and asphalt absorb and hold in heat. Two popular varieties are red oak for large lots (it grows to 70 feet) and white oak for small lots (it grows to 40 feet). (See the article on page 100.)



- install a programmable thermostat

With an extended annual savings of \$100 and an annual utility bill only about \$50, low electricity costs for the thermostat in quality is just one case. With a programable thermostat, you can automatically adjust your heating and air conditioning systems to match your family's chosen daily schedule. During the week, for example, you can set it to turn off the heater after everyone's gone to bed, switch it back on again for a warm wake-up, then put it along at its lower limit until it's hot again here than school. The most extended results by you program to be four settings for each day of the week. For every degree you lower your thermostat for a week, you save up to one penny (or less, if about 1 percent, but it's back 100 percent, and that's a personal savings for you. And that's not your own home, the difference—except after you're happy the bill, right? 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- Create a rain garden

For most people runoff is a problem. With rain gardens it becomes an opportunity of diverting your gutter water into low-lying drains, where it soaks up before any other rain can cause elsewhere to be a leeway on your property planted with bushes, grasses, or trees that like getting their feet wet. You invest in something beautiful to look at plus the satisfaction of knowing that you're helping to preserve the naturalized-urban and water conservation that used to be the job of forests and wetlands. First construction details at rain-garden.org. For plant recommendations, consult your local native plant society. For a full list of plants to REET, LEAK, AND LOBBY: www.rain-garden.org/vegetal/127 a cubic foot of sand: \$30 / a cubic yard of gravel: \$20 / a ton: \$67 (plus the cost of delivery).

5 under \$50

improvements so easy, you have no excuse not to make them.

transfer heat efficiently, so it takes more energy to cool your food. Get at them (they're usually found underneath) at the back with a long-handled tool.

Replace weatherstripping. Over time, the seals around windows and doors wear out, letting in chilly winter air and forcing you to crank up the thermostat.

Reduce light pollution: Put a motion sensor on your all-night garage floodlight. Not only will you save electricity, you and your kids will get to enjoy one of early fall's greatest pleasures, a clear view of the night sky.

Clean green: You don't need dozens of toxic products. Soap, baking soda, and vinegar or lemon juice can take care of most household cleaning needs. For recipes, get the book *Clean and Green*, by Anneli Barthold-Sond. To compare the contents of common household cleaners, check out *The Household Products Database* at householdproducts.slu.se/slu.se.

- Install a smart ceiling fan

They're going to save energy because the linear-positioned moisture anyplace hot, they'll find cooling positions without the benefit of air-conditioning. Inspection though, I believe I always want that way. People from running with the AC going all day, even from the summer, one in the room, which wastes their cooling power. Here's what to do. Instead, first make sure any energy loss is always at the rated. Lightboxes use fluorescent bulbs instead of haloband, incandescent or halogens and are up to 50 percent more efficient than standard models.

Second, on the level installed, first year at conditioner, called by 5-figures. Experiment with your heater and/or, too. You may be able to lower it, a degree or two. If you can't, then lockback to it, push the light on, as above, and find a way to install an occupancy sensor switch that shuts the fan off if no one is in the room (the step-by-step instructions are how to install a ceiling fan to a thermostat on a thermostat).

DO SUCH AHEAD, CALLING FROM 503
INTERNET ELECTRICALS 512
MOTON GARDEN WALL, SPAIN 525
2004-2006



“Try using salvaged materials for your next home-improvement project. Not only will you save resources, you'll also save money that you can put toward future green upgrades.”

- Fireplace can light

[illegible]

- Build a worm bin

Let worms eat your garbage and they'll reward you by producing rich compost for your garden. Because worms thrive in a closed container, a worm bin is much less likely to attract pests than an open-compost pile. You can buy plastic worm bins, but it's a lot better to make your own, which you can easily do with 1½ sheets of exterior-grade plywood, a few scraps of 2x6s, two hinges, and a handful of nails or screws. Use the bottom with doubleing of most leaves or shredded cardboard, add a column of

worms, and helpfully feed them your food scraps. Within a year you can start harvesting compost. Earthworms don't do well in confined quarters, so use red wiggler worms instead: enter them online at pinworms.com. (For a free plan, cutting diagrams and building instructions, go to backhouse.com/vermic.)

INSECT PURCHASE: \$75
HARDWARE: \$10 • **CLIP ART: PROBABLY \$10** • **FEED: \$100** •

recycling katrina's

KATRINA

ruins

One of the Gulf Coast's hardest-hit communities deconstructs a battered 18th-century cottage to help rebuild others with its antique bricks and beams

By Amy R. Hughes
Photographs by Russell Kays



Volunteers from the Gulf Coast Community Foundation are helping to rebuild homes in the Gulf Coast. The foundation is a 501(c)(3) nonprofit organization that provides financial support to local organizations and individuals in need.

by the hurricane's winds and floodwaters, bulldozers are leveling the landscape.

While always a curiosity when the billion's resources are

Duccio Colina and his wife, Lucy, have been living in a FEMA trailer since the hurricane—on the outskirts of other trailers who returned to the parish in recent months. The couple plans to build a new house on their lot, so they donated the remains of their old one to the L...

The Collieries' 1794 house is an example of colombage, or built between posts construction. The building technique, examples of which are extremely rare in the United States, was popular as a 16th-century European. There, native folkdoms, rather than brick, was used to form walls between two networks of hand-hewn posts and beams. In 1831 Bernard Perrot, a 465-square-mile swath of land located about 5 miles southeast of New Orleans, colombage was one of the primary building methods. Such walls housed hundreds of the Cuxary Island Spaniards brought there in the late 1780s by the Spanish national government to leave the land and protect its interests in New Orleans from Britain.

corroborates, and they were built to withstand the stresses of that environment," Hyland explains. By comparison, thousands of newer houses, framed with less rot-resistant wood and clad inside with paper-faced drywall, lie breathless ground for toxic mold when it rains. And, well, here we have to be sure doors or windows are built

The parish's old houses used to be surrounded by reeds, forests, swamps, and marshes. These wetlands, as well as a string of rice

[illegible]

Construction in Reverse

CLOCKWISE FROM TOP: *Arnos Project crew member Arbet*
Arbet's assistant is bent over
inspecting their team's completed
first fix of the Colton house. Site
manager Jason Maxwell (right)
looks on as Arbet (center)
finishes one of the house's crawl-
space repairs. One of the first ARS
projects was a sewer. Crew members
excavate a trench with through the
sublot to access the sewerline
below. After excavating the trench
down and equipment lifting,
sewer workers had to locate a
portion of the house and home
a mile from the house to

would have done with a raised house, this project is also encouraging a new trend in modular building called deconstruction. The idea is to keep as much nonrecyclable as landfill by extracting them by hand and with power tools rather than pulverizing them with a tractor. "You remove things by teasing them out," says David Reynolds, director of the Green Project, a New Orleans nonprofit group that's working with AmeriCorps community service members to deconstruct the California home. "Everything is done in a surgical way. It's like in an open-heart room, but we're using three-foot chainsaws to extract tissue."

Green Project design processes typically take place on houses that are still standing. Workers start with the roof and progress down to the foundation. But in the case of the Collins house, Korman did much



decorated terrace islands offshore, were once used as the first line of defense against flooding. That was used 1765, when the United States Army Corps of Engineers completed digging a shipping channel through the parish to provide a shortcut between New Orleans and the Gulf of Mexico. Salween, Salween from the Gulf into the freshwater habitat, killing some 10,000 acres of marsh and 1,500 acres of cypress swamp in the parish. What remains today is a shallow, sand-banked channel called the Mississippi River Gulf Outlet, which has more than tripled in width over the past 40 years due to erosion. Looking out over the waterway, Parish historian J. Byron says, "This is what destroyed us."

Just over a year ago, on August 25, 2005, Hurricane Katrina's winds ripped trees and ripped off roofs. Then, a 20-foot tidal wave, caused by a rise in the shipping channel, which locals have dubbed the "hurricane superstorm," hit the area. The Louisiana Heritage and Mills Cultural Park right off their feet. Four decades and left behind more than 4 feet of stagnant water. It took three weeks for the flooding to recede.

Now, the historic area museum building is damaged beyond repair, a 90-foot water risk kill on the circa-1940 cotton-baggage storage, showing off to front rooms and exposing decades' worth of rot and some relocation. And with other buildings in rough shape, the choice for the future. "The Louisiana complex was important before the hurricane but now it's even more important," says Jerry Etapal, a high school teacher and the Louisiana Heritage and Cultural Society historian.

A north-generation hotel, Etapal has a personal connection to the complex: His mother's original home was moved there in

America Group Corp. and Elise Smith both of America Group, stock bricks that will be used to restore period water-tight fireplace at the 1940s Etapal cottage and to wash under for with in the 1940s Etapal Library.

1999 to save it from the wrecking ball. The four-room cottage was built constructed in the early 1940s for Etapal's mother. It's one of just a handful of original homes still remaining in the parish. And like the Collins house, the cottage is an example of a rare building form. It's framed with hand-hewn cypress joists and beams, though instead of the brick and mill work elsewhere, the walls are formed from heart-pine, a mixture of mud, moss, and animal hair that was once used by Native Americans living in the area.

To help with the Etapal cottage restoration, as well as other of the museum complex's 1940s Etapal Library, a one-singular reconstruction crew now peels through the rubble at the Collins house. They are looking for intact building materials and architectural details that are fit for restoration.

The bricks that America Group members America Group and Elise Smith will be used to reconstruct the original, two-story Etapal cottage. Also found for a new life are five sets of French doors. Set manager Maxwell Smith and Richard Hall, of America Group, gently coax them out of their wooden surroundings in the house at the Collins house. The doors, which still have their very glass windows, porcelain knobs, and hand-forged iron period hinges, will replace windows and solid panel doors that were installed at the cottage after a mid-century catastrophic hurricane pummeled over the parish in 1915.

Cypress joists and ceiling beams with decorative beading, two-panel interior doors, and wooden trunks moved from the Collins house now will be used inside the Etapal Library. The colonial-style building was owned for centuries by Dr. Louis-Alexandre Etapal, parish mayor and Etapal Collins's grandfather. Before Katrina, it housed a branch of the public library, as well as archaeological artifacts unearthed at the region. Now, the Etapal Library is an empty shell, its books damaged and its remaining written pieces away for safekeeping. The exterior brick-between-joist walls have been stripped

"Everyone is bulldozing, but I just didn't have the heart to do it. I wanted to put the materials to good use."

—JERRY ETAPAL, CO-OWNER OF THE ETAPAL COMPLEX

of damaged glass, sheathing, as well as some modern, multi-colored drywall.

The building needs ready to be restored. And thanks to some careful extraction from the rubble, it will be one day closer. "Preserving some of the original fabric of the Etapal's very historic house is crucial to the preservation of the complex as well as to the story of this village and of the Etapals," Etapal says. "Our architecture and our history are really what drive this area. This is who we are."

For more on ongoing efforts for Etapal, visit www.louisianaheritage.com/etapal

Piecing Together the Past

CLOCKWISE FROM TOP: 12. Bernard Parish Mayor Les Williams (right) shows the reconstruction crew a picture of the Collins house from 1915, while much of the Collins house had collapsed under the weight of heavy rain. 13. The brick between-joist French windows (left) found in the Etapal cottage were salvaged from the Etapal Library. 14. Smith and Hall carefully coax them out of their wooden surroundings in the house at the Collins house. The doors, which still have their very glass windows, porcelain knobs, and hand-forged iron period hinges, will replace windows and solid panel doors that were installed at the cottage after a mid-century catastrophic hurricane pummeled over the parish in 1915.



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Delphinus, a scoundrel and a bright-legged compass, are curved against tools for prying and measuring measurements from three dimensional objects. When a scoundrel's master compass that emerged from workshop in the 18th century time considered how up their shapely their legs too still accurately take the measure of inside toe-to-toe to well as outside (part to two-dimensional).

PHOTOGRAPH BY DEBRA LARSEN



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Compost for Lawns
How much compost should I spread on my lawn in the fall?

SUE FUSCO, STONINGTON, CONN.

Roger Cook replies: Compost is a great way to nourish roots and make a lawn stronger and greener. If you just spread compost on the surface, then it ends up about all you can add at one time without burning the grass. But you'll get much better results if you water the lawn first and get the compost down where it will do the most good.

The best way to do this is with a core aerator, which punches holes in the soil. Then you can add a half inch of compost to the holes. While you're at it, this would be a good time to add your usual fall fertilizer. Finally, give the lawn a good watering to work the compost into the holes.

By the way, fall is a great time to do this work. Aeration is easier while your re-couping weeds to get a start.

Before applying compost, Roger Cook says to use a core aerator. This machine punches holes through the soil, allowing air and the nutrients in the compost to reach the roots.

WHAT IS IT?

- A. Base-clamp crimper
- B. Steel nail splitter
- C. Crop stranglebender
- D. Ch...

BY HOWARD MEDIAN, BUTWICK, N.J.



Strikes on Shingles
My roof is streaked with black stains. Is there anything I can do to get rid of them? The shingles manufacturer says that staining isn't covered by the warranty because it doesn't affect the performance of the shingles.

BY HOWARD MEDIAN, BUTWICK, N.J.

TenSley replies: The dark streaks are a type of algae that lives off the mineral content of roof shingles. Algae thrives in moisture, so it often rains more often shaded or north-facing roof slopes that don't get a lot of direct sun.

While it's true that algae doesn't damage roofing, it sure looks bad. To get rid of it, use a pump sprayer to wet down the roof with a mix of one part bleach to two parts water. Bleach will damage flower box plantings, so rinse them well with fresh water before you start and after you're done. Then scrub the surface gently with a soft window-washing brush mounted on a telescoping pole. You can't use a pressure washer, which could damage the shingles. Also, do this work from the safety of a ladder or from the ground, not by climbing on the roof.

To stop the algae from returning, mount zinc or copper strips on the roof ridge. That,





It's easier to patch this missing chunk of a vinyl center board than to replace the entire floor plate.

every time it rains, the water that soaks over the roof's exposed edges will job up on from the metal and collect the algae that's growing a foothold. And when it's time for a new roof, look for shingles with silver-colored granules and the best warranty you can find.

Patching Vinyl Corner Trim

My house has vinyl siding, and one corner board is damaged (left). Can't be repaired without taking off the siding?

STEVE WOODS, OZARK, IL

Tom Silva replies: You can't replace vinyl corner trim without removing a bunch of siding, so here's how I'd make the repair.

Get a new corner piece of trim that matches the damaged one and, using tin snips, cut out a section that extends at least 2 inches above and below the damage. Use a utility knife to trim all the siding flanges on both sides of the replacement piece. Lightly sand the underside of the patch and the corresponding surfaces of the damaged corner, then glue the patch on

with polyurethane construction adhesive. Hold it in place with painter's tape. I'd also run a few strips of painter's tape below the patch to catch glue drips. Once the glue sets, you can take off all the tape.

If you don't want a patch to show, you can glue a full-length piece over the entire corner. Just get a helper and use lots of tape because it will want to slide.

Adjusting Toilet Drain Height

I installed ceramic tile on my bathroom floor, and now the drain fitting for the toilet sits 1/2 inch below the finished floor surface. Do I have to raise the fitting?

DAVE GOLDBY, CHARLOTTE, N.C.

Richard Rothberg replies: Thank goodness, no raising that fitting, known as a closet flange, is more of a problem most people want to tackle with. Fortunately there are two good alternatives. If a flange is more than 1/2 inch below the floor, buy some 1/2- or 3/4-inch-thick PVC-flange extenders and fit them around the

flange to bring it up even with or slightly above the floor level. If it's 3/4 inch or less below the floor, then we worry about No-Sag No. 30 wax ring. Standard wax rings work for closet flanges that are even with the finished floor or up to 1/2 inch above it.

Extending Door Jamb

We've been remodeling an old farmhouse and just discovered that the jamb on the prehung door we ordered isn't wide enough to match the thickness of our old walls. We've looked at various moldings, hoping that with a little creativity we might be able to make something work. Do you have a better suggestion?

JOE AND MARY DENNETT, CHINA, IL

Norm Abram replies: The kind of problem often comes up when remodeling windows and pre-hung doors in an old house. The solution is simple: Extend the jamb with wood boards of similar thickness.

To figure out how wide the extensions need

to be, hold a straightedge against the wall on one end and extend past the jamb, then measure the gap between the edge of the jamb and the straightedge. Check this gap several places around the door for the gap from a side row to the dimension of the wider gap, and cut extensions for each jamb.

Attach the strips with woodworking glue and finish nails. Don't try to nail the edges up flange, or you'll leak better if you attach the extensions slightly crusing a nail. You'll probably have to plane the extension flange with the wall, so be sure to set the miter gauge deep enough that you won't nick the blade. ■

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FOR MORE INFORMATION, SEE DIRECTORY PAGE 14



▲ WHAT IF IT?

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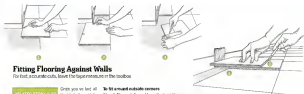
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Fitting Flooring Against Walls

For best, accurate cuts, leave the tape measure in the toolbox.

RELATED STORY ► 60 LIVING A CORN FLOOR

Grab your best old double in the middle of the room, you're up against the wall. Mostly, Andriana says, the slow work of cutting to fit. To save time and improve accuracy, take the approach favored by the pros: Use the tape itself as your measuring device. The technique works for tile of any kind, including wood parquet, linoleum, rubber cork, waxed linoleum (Note: If you need to leave a gap between your joints, use a spacer between the tile and the wall before making your marks.) —THOMAS BRIDGES

To fit around outside corners

Step 1: Place a full-size tile on the floor to use as a guide. But it's against the wall, align the side edge with the side edge of the right-hand tile. Mark the tile where it touches the corner. Step 2: With outcropping the tile, place its side against the adjacent wall. Align the tile's back edge with the exposed edge of the full tile closest to the wall. Mark where the tile meets the corner. Step 3: Use a square to draw perpendicular lines from the marks. The tile, shaped out like all from the waste to be cut away.

To fit against straight walls

Step 1: Lay the full-size tile to be cut on top of the nearest full tile in the field. Line up the front edge with the full tile's exposed edge. Step 2: Place another full-size tile on top of the tile to be cut. But the edge against the wall and center the edge as a guide to mark the tile as accurately as possible. Step 3: Cut the tile along the mark with the saw or snap cutter. Check the fit. It should be perfect.



Setting Glass Tile

When it comes to installation, there are clear differences between ceramic and glass.

RELATED STORY ► 30 CLEAN WINDOWS

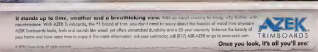
Because of its transparency, hardness and slick surface, glass tile demands different materials, tools and techniques from ordinary ceramic. Here's what you need to know from thing expert Joe Ferro, a veteran of many TCM projects.

Basic: For clean, straight cuts, use diamond and saw blades. Hitters with carbide jaws can cut curves and fit angles. When working with glass, always wear safety goggles.

Materials: The best tiles for setting are glass tile have two parts: a white powder and a colorant additive, such as Laticrete 327 Finesse and 325 Finesse. Most together without water these two components bond tightly to the glass and provide a uniform substrate. For good, use a standard product labeled with polymer techniques. The day before, mix the wall with the thickest mix applied with a straight-edge trowel. The layer holds the cementitious board underneath and ensures a good bond. The wet day, trowel on a thin, smooth layer of cement about 1/8 inch thick. Then, before setting each tile, "back-butter" it with a smooth layer of cement about the same thickness. "Back-buttering is a king," says Ferro. "It makes a superior bond and eliminates bubbles between the tile and the board." As you slide the tile to the wall, lead it slightly to any irregularities on the edge. Wait four or five days for the cement to cure before applying grout. Then, after grouting, wait another 24 hours before applying a sealer—only to the grout lines—with a spray-on finish. "You don't need to seal the glass," Ferro says. —BARBARA PETERSON

YOU TIP

To drill a hole through glass tile, use a diamond-bit tile bit. Before starting, press the chuck bit against the mark and twist by hand until you hear its tip scrape against the glass. That will keep it from wandering when you start the drill.



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chicagofixtures.com Double hung window:

Barell Enterprises, South San Francisco, CA

800-875-5555 barell.com Staircase: Stairco

Lighting: stairlighting.com

AROUND THE BOURSE (pp. 23-32)

"Living Up to Living Water" (pp. 23-24)

Benjamin Grunke, assistant administrator

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717-397-0832 armstrong.com Porcelain

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ITCHY GREENS

Glass and Green (pp. 35-42)

Design: Virginia Architecture Inc., Portland, OR

503-585-0547 vabg@aol.com Contractor: David

Hosler, Coho Construction Inc., Portland, OR

503-233-4250 Sinks and countertop: The

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Renewing Old, Aquate Windows (pp. 48-50)

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of old tile: tile is

1,000 THINGS: Glass Windows (pp. 53-56)

(Page 54) Tile floor: Top Porcelain Tiles in

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(Page 52) Top: Seaglass Inlaid Tiles, \$50 per

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and bottom center: 54 in. Solid Tile in Aqua

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sunlight.org. Bottom left: Seaglass mosaic

tiles, 54 in. sq. ft., Eco Friendly Flooring,

Madison, WI. Top right: Trending Tiles in Aqua Blue,

Emerald, and Classic Clear, 54 in. sq. ft., Aurora

Glass, Backyard, Emerald, and Classic Clear,

54 in. sq. ft., in mosaic, 54 in. sq. ft.,

Ecofriendly Flooring

(Page 54) Top: 2 by 2 in. in Service, 52 1/2 per sq.

ft., Second row: 2 by 4 in. in Service, \$3.35 per

tile, 2 by 2 in. in Mineral Water, 52 1/2 per sq.

ft., Third row: 5 by 5 in. in Cedar, 52 1/2 per sq. ft.

in Cedar, 52 1/2 per sq. ft., Fourth row: 4 by 4 in. in

Colony, 54 1/2 per sq. ft., Diamond in Sunstone,

54 per sq. ft., 4 by 4 in. in Aqua Blue, 50.25 per

sq. ft., Fifth row: Triangle in Sand, 52 1/2 per sq.

ft., Sixth row: Diamond in Cobalt, 54.25 per sq.

ft., Last row: Triangle in Honey, 53.35 per sq.

ft., 2 by 2 in. in Emerald in Sunstone, 52.40 per

sq. ft., Hardcopy in Aqua Blue, 52 per sq.

ft., All by Ecofriendly Industries, Seattle, WA 877-283-

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COOL CUSTOMERS (pp. 58-59)

Lightbulb model numbers: 1. Measure

friendly: Philips Reflector Flood, E10/E10 Den,

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Flood, CL1400 Den, 10W 3. Mini Spiral

Systems: CF28 L, Medium Gray

4. Condo: GE, FLE32/20W/ND/CD

5. Vinyl: GE, CFL32/20W/ND/CD

6. Classic: GE, FLE32/20W/ND/CD 7. Small

Classic: GE, CFL32/20W/ND/CD 8. Globe

GE, FLE32/20W/ND/CD 9. Three Way: GE

FLE32/20W/ND/CD 10. Full Spectrum:

Luxman EcoLine Full Spectrum, 20W

11. Halo: Lightbulb, #1000-260W

12. Reflector Flood: Energy Efficient Flood

CF28/20W

MOORE CALLS

Playroom Design (pp. 60-62)

Designer: Erica Lynn Huberty, Bloomington

Interior Design, North Haven, CT 833-335-4755

hobbyinteriors.com

1,000 THINGS

Must Be Used Right (pp. 64-65)

Shade: 4 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in.

Shade: 4 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in.

Shade: 4 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in.

Shade: 4 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in.

Shade: 4 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in.

Shade: 4 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in.

Shade: 4 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in. 2 in.

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Museum: Los Mochis Heritage and Multi Cultural Park, St. Bernard Parish, LA
losmochis.org **Deconstruction crew:** Green Project, MoorGraphics, LA <http://greenproject.org> and amcoi.org National Oakleaf Community Corps (NCCC), Washington, DC, 202-626-5800 amcoi.org/about/programs/nccc.asp.
Wizards vs. Franken Engineering: frankenengineering.com and www.frankengrass.com

Wright & Co. Count business recovery effort, New Orleans, LA, microblogs by: David Reynolds and the entire dissemination crew at the Green Project. *Michigan Journal of the Arts & Letters* (NJAL) members who worked on the Collins house project: St. Bernard Parish president "Henry" Junior Rodriguez, St. Bernard Parish, LA, stage set: St. Bernard Parish historian William de Montigny-Hyland, Louisiana Heritage and Cultural Society president George Benge, Louisiana Heritage and Cultural Society President Jerry Espinal, Eugene D. Cook, professor of architecture and director of the Historic Preservation Program, Tulane University, New Orleans, LA, future site and our upcoming, *Case Pelletier* project of The Orleans Museum, New Orleans, LA. 504. 446.7232. case@neworleans.com

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Ask This Old House (pp. 123-125)
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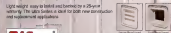
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