

This Old House

MARCH 2006

Transform
your house
with details

- ▶ windows
- ▶ built-ins
- ▶ wainscoting

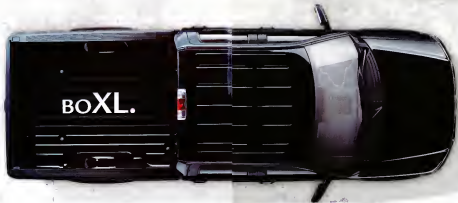
9
signs of a
crooked
contractor

BUILD A FAMILY-FRIENDLY BATH

SPRING PRUNING TIPS

CHAIN SAW SAFETY

CLOSET UPGRADE: THE DIY SOLUTION



Extra, extend F-150 SuperCrew now comes with either a 5 ft. or new 6 ft. bed. Plus, class-leading payload* for whatever you drop into the most innovative full-size pickup out there.

2006 FORD F-150

fordvehicles.com



*Class is full-size pickups under 6,000 GVWR when properly equipped.

Armstrong

Your ideas become reality.

Hardwood

NATURALLY, THE
BEST CHAT ROOMS
ARE THE REAL ONES.



Armstrong® Hardwood

Armstrong® Hardwood Flooring by
Hartco® Heritage Classics® Collection
Multi Copper Canyon HDMH-104



Nothing adds as much beauty and

warmth to a home as genuine,

natural Armstrong Hardwood.

Except, maybe, a few good friends.

www.armstrong.com

Hardwood floors in your home.

Like your hardwood floors.

Design: Denise Collins
Armstrong® Heritage Classics® Collection

At 12 and 14, 40-year-old photographer
 writes by Judith McManis

The surprisingly intense
 relationship between Bob,
 left, and his mother

FROM A ROOMER: our MCQ
 looks very handsome



THE BOLD LOOK
 OF KOHLER

features

76 Details Make the Difference

Arched windows, wainscoting, and cleverly designed walls are add-up to timeless character

84 21 Ways to Save

We combed dozens of industry pros to bring you ways you can spruce your remodel without back down to earth

90 Stone Faced

Rock veneer adds natural texture to walls, foundations. And champagne. One house was installed at the 2004 NFL playoff game

94 Mining the Past

It took three years, dropped demolition, and preservation of ancient materials to transform a pair of rusty coal sheds into a historically sensitive home



The builder and his crew dug out two feet of rotten caissons and debris and rebuilt the sheds from the inside out.



ON THE COVER

- 76 Transform your house with details
 - 84 Tidy handy bath
 - 90 Spring pruning tree
 - 94 LEV: Close, save safety
 - 98 Clean up the DIY
 - 100 Design the cracked contractor
- Downloaded by
 Designing with



You can't put just anything in a well-designed home.

Never choose between form and function. Marvin windows and doors pass the tests of time, weather and wear. The industry's most durable exterior cladding stays strong with a finish that exceeds even commercial standards. Built to resist chipping, chaffing and fading—year after year. All with sophisticated hardware and ergonomic handles that work as smooth as they look. Call 1 800 268 7644 (in Canada, 1 800-263-6860) or learn more at marvin.com/theartoflifeinence

MARVIN 
Windows and Doors
Made for you®



march 2006 | CONTENTS

in every issue

THIS MONTH ONLINE 10 | FROM THIS OLD HOUSE 13 | CONTRIBUTORS 14 | MAIL 18

around the house

17 Illustrated glassblock | How to spot smoked contractors | Try home appliances before you buy, and more

departments

27 **Bark Design**
Spiking a bathroom master bath lets the whole family use the luxury tub

31 **Landscapes**
High-style house numbers

37 **Salvage**
Antique wood doors

41 **Landscaping**
Expert guidance on planting shrubs and trees

49 **Home Tech**
Not connected surveillance cameras put you in eye on the home front

53 **Green**
Agreen design consultant can help make your remodel greener on the earth

57 **Toolbox**
Our guide to choosing a chainsaw

62 **How & Why**
Editor says top leaders that really deliver business = more cash

69 **Homeowner's Handbook**
Installing built-in shutters

124 **Save This Old House**
An 1840s Federal-style farmhouse undergoes a major cleanup to prepare for its new owner

workshop

102 **Ask This Old House**
Facing a basement refueling wall, what's the ventilation and more Q&A

104 **Expert Skills**
Sharpening pruning shears, clearing toilet clogs, and other tips

107 **Recent's Handbook**
CPH master carpenter Aaron Abrams's techniques for using chain saws safely

108 **Directory**
Find the products and services featured in this issue

Grace marries power. A gold medal kitchen comes into the world.



Olympic couple Keri Yarnaguchi and Bert Hedican give their GE Profile™ kitchen a perfect ten. The oven cooks a 22 pound turkey in two hours. The dishwasher only needs detergent every two months. The GE Profile kitchen. It skates circles around any other.

See it at ge.com/grace



imagination at work

GE Profile™



SHIFT_OUTDOOR

DATE: 2008-08-08 10:00:00

1 printed 25. Secret

Sources: (December 2008) www.

thought I'd show one of my own. A couple of years ago I was visiting a 2507 Confederate-style church in Owens, Oregon. Most of the casual dressers were made of denim. More than 25% of the men and 10% of the women wore jeans. I was told that jeans and T-shirt had become high-end wear in this mountain village. Finally, I contacted The First Dress Company (www.firstdress.com), where Kirby, Montana, and I discovered a most amazing place. Kirby Chino and his wife, Mary, run a small shop that makes denim and rockabilly-style shirts and jeans. Mary says there aren't enough old shirts to fill the denim plant's raw-materials bins, and sometimes she has to buy jeans from the States to get them in. She says that jeans are the most common item that cannot be distinguished from the ones she sells. They currently employ about 20 people and take custom orders, but still they produce about 900 shirts per month. "You might say you're in it for the shop and engaging with a local business,"

If your article includes the "[sic]" (Pronounced "see" not "sigh") notation, you've noted that the writer's spelling or punctuation should not be changed through the edit. Why? Well, because our HVAC contractor did just the two years ago, and so far it seems fine.

BETWEEN EAST CANADA DOWN

The sillies reply: If you're concerned about ice dams, you don't *really* have to do it through a roof vent because the vents will can come back into the attic through the vents. It's better to go through the roof gable wall or side wall. If your house has no attic vents, then having the exhaust vent there is probably not a problem as long as you are not sealing any air-leakage holes in that area.

Key Name is Must Dominican's commonly identified (Sharp) Woods, as an architect who visited Haiti as a designer and CEO of Woods Architecture Builders, Inc.

*All Laurel Sources, December: The correct phone number for CadenMarta is 800 438 5800

Address inquiries to: The Chronicle magazine,
201 Avenue of the Americas, New York, NY 10013.
In a circular "Q", inquiries@chronicle.com
Please do not post bad news, letters, and
negative press notices. Published letters will reflect
the magazine's editorial stance and are subject to editing.



photographer **Donaldson Verlin** moved to College Ave. House in the mid-1980s, and he's been working at his craft ever since, capturing interior shots that make the American West come alive. This issue Verlin's lens reveals the beautiful details of a redesigned 1920s Tudor ("Details Make the Difference," page 70) near Orange County, California. "It's very kind," he says of the home's design. "I like how it was styled with light" interiors, a classic physics selector is a favorite. He also shoots for *The New York Times Magazine* and *House Beautiful*. A back cover in the Los Angeles area illustrated with his photos is scheduled for release in 2009.



A White House researcher that month's "21 Ways to Green" feature (page 64) enthusiastically interweaving topics from the country's rural **James Davis** also learned a few lessons of his own from recovering his former home in New Mexico. The 40-year-old brings you curiously insider's Headed Out. That title and boiler-plate first-verb-it-is-used delivery lists—without a good tie-in to the story. Davis thought that was smart enough to think it not to read his kitchen—he did it. I need to wash his dishes for the day longer than he needs. To remedy a minor error in Outside, Glave also wrote for Details and Ginger

[illegible]

or When it's time for readers to ask the
TCJ about the questions that matter up our
sleeve. It's a *Callhouse* column (page 105).

Mark Felner is our go-to guy from whose association with our magazine dates back to the first ever issue, after three years of letters each year gaining us 24 into challenges (being businessmen and knowing which experts to test after school). I'm sure and talk guy. Felner says, "I hope everyone else is a problem." Which of course is what TGF is all about. Felner who lives in Connecticut is a coauthor of other classic textbooks: *Construction Building Construction*

Whether you're dreaming of a second home in a faraway land – or your very first house right around the corner – just tell RE/MAX what you want.

RE/MAX agents average more experience than other agents. They know their markets and they care enough to get to know you, too.

Nobody sells more real estate than RE/MAX.
So wherever you are or want to be, we'll be
there for you.



Outstanding Agents. Outstanding Results.

remax.com®

Expert Commentary **By Bob Morris, Chairman, International Tax and Accounting Institute**
 (The following is a summary of the author's views on the subject and does not constitute an offer of investment advice.)

Indulge
your senses



marmoleum® click
seriously fun floors...naturally

Environmentally responsible flooring that is safe, sleek and easy to clean.
Now available in click panels and squares for a snap, "glueless" installation

Marmoleum click offers natural warmth, quiet comfort underfoot, and a 25 year warranty.
Our innovative new finish, Topshield, ensures a highly effective shield against dirt and scuff marks

Express your individuality. Create your unique, healthy, hygienic home with Marmoleum click!
naturally... colorfully... creatively... and easily yours

Marmoleum click is available in 18 colors. Panels: 12"x36" approx. Squares: 12"x12" approx.
Learn more or find your local dealer: www.clickmarmoleum.com

1 866 MARMOLEUM (627-6475)

creating better environments



around the HOUSE

GOOD TO KNOW

This month in your sector, Irving Calabrese patented a method that allows for the mass production of window glass.

Block Luster

More Vegas than Victorian: new glass blocks light up in an array of colors.

WE HAD TO TRY the first example of broad-based building materials, a Phoenix company has embedded the chiseled borders Art Deco-style glass cubes with fiber-optic cables that disperse and reflect light through the glass. A control box emits the light in a single hue or cycles through six light colors when for a predictable message.

Cornerstones of Moderne design, glass blocks were popularized in the 1930s and '40s when sun-seeking tourists first saw them on the vibrant facades of houses and hotels lining South Florida's beaches. They had a resurgence in the '80s, thanks in part to Miami Vice and America's fascination with anything even remotely related to the gutter Don Johnson. Today, the blocks are used in dividers and shower enclosures in bathrooms, as nightlights on front windows, and as exterior window walls.

In the past, makers loaded joints between glass blocks with mortar, but the latest ones come preassembled in a PVC grid. The makers, Glit's Block Innovations, view a panel to your opening and shape and your house, where a contractor installs it.

Like Don's Cigarette box, the blocks don't come cheap. A 4-by-4-foot panel runs at \$1,600 at glitblockinnovations.com. But seriously, can you put a price on cool?

—KAREN SAMPSON



Glit's Block Innovations' new fiber-optic glass blocks, which come in 12 colors, can be used in a variety of applications, including as a nightlight.

SPEAKING OF GLASS BLOCK...



LAMP LUSTER For centuries, best business have embedded glass blocks in the decks of ships to allow sunlight into the vessel's interiors.



BUILDING BLOCKS As easily installed as profit-building components, translucent glass blocks in the 2007 home.



PROTECTED GLASS With an U-value of 1.50, a 4-inch-thick glass block insulates about as well as a standard double-pane window.



+ There were trails to get you to sign-off on values. Your walls won't crumble because you didn't get that ultra-expensive siding.



THIS IS MY DREAM OFFICE

introducing the online shortcut that lets you pick and choose the services you use most at usps.com and access them instantly. Schedule pickups, ship, track packages and more.



Applied Behavior analysis (ABA) is a science-based approach to understanding and changing behavior. It is based on the principles of learning and conditioning, and is used to teach new skills and behaviors to individuals with developmental disabilities. ABA is a highly effective and evidence-based approach to behavior change, and is used by a wide range of professionals, including psychologists, educators, and social workers. ABA is a highly structured and systematic approach to behavior change, and is based on the principles of learning and conditioning. It is used to teach new skills and behaviors to individuals with developmental disabilities, and is a highly effective and evidence-based approach to behavior change. ABA is a highly structured and systematic approach to behavior change, and is based on the principles of learning and conditioning. It is used to teach new skills and behaviors to individuals with developmental disabilities, and is a highly effective and evidence-based approach to behavior change.

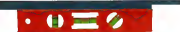


RUST BUSTER

NEW TOOL BAG WARDS OFF CORROSION

STORED IN DARK BASEMENTS or messy garages, tools are destined to rust. But now you can beat the rust with a new tool bag that emits a rust-inhibiting vapor to ward off corrosion for up to five years. It may sound like fluff, but the makers, plastic-coating company Plumbco, swear on their oaths. Plumbco's plastic-coating company Plumbco, swears on their oaths. Plumbco's plastic-coating company Plumbco, swears on their oaths.

While the technology is new for tool companies, it has been used by the auto industry for years as a way to keep engine parts rust-free during overseas transport. Plumbco Zircor medium contractor kit (\$161, \$50), Plumbco Zircor medium contractor kit (\$161, \$50), Plumbco Zircor medium contractor kit (\$161, \$50).



EXISTING GOES

To ensure your old doors survive, Egyptian builders used extra-weighted string to fasten the door to the wall. Next, they positioned a light-weight wooden frame against the wall to check the door fit. This method worked fine for four centuries, until Plumbco's Rust Buster medium contractor kit (\$161, \$50), Plumbco Zircor medium contractor kit (\$161, \$50), Plumbco Zircor medium contractor kit (\$161, \$50).

In which year did this Plumbco Zircor medium contractor kit (\$161, \$50), Plumbco Zircor medium contractor kit (\$161, \$50), Plumbco Zircor medium contractor kit (\$161, \$50).

A. 1580 B. 1640 C. 1640 D. 1640

Source: Plumbco Zircor medium contractor kit (\$161, \$50), Plumbco Zircor medium contractor kit (\$161, \$50), Plumbco Zircor medium contractor kit (\$161, \$50).

12 USES

Salt

That something of salt will you brought to bear on your up front with this water is that only partially described. As you ponder what to do with the leftovers, consider the history of salt shortages throughout history have fueled revolutions and inspired wars. Now that there's plenty use it for:

Polish brass. Grind up salt with flour and vinegar into a paste. Rub onto tarnished surfaces. Leave for an hour, and wipe clean with a soft cloth.

Remove rings. A pinch of salt and vegetable oil removed white rings caused by nearby glasses or heated wood surfaces.

Beat back weeds. Salt the earth between pots to stifle unwanted vegetation. Another summer's worth of salty plants, says TCH landscape contractor Roger Cook.

Score a drill. Use a pinch of sea salt with one part vegetable oil to scrub old bits without scoring the surrounding.

Delight minnows. Rub a sponge saturated in a saltwater solution on the inside of saltwater to keep snow and ice from collecting.

Wash window frames. Use a stiff bristle brush mixed with warm saltwater. Then let dry in the sun.

Cut food stains. Desorbine wood cutting board by rubbing it with salt and lemon juice.

Lenore road. A handful of salt thrown on the flames in a stovetop fireproof desorbine salt. According to Smithsonian State University study shows. Salt can cause metal chimney fires.

Fix small nail holes. Use a paste of 2 tablespoons salt, 2 tablespoons cornstarch, and 4 teaspoons of water to fill holes in plaster or drywall.

Clear marble. Fred Hunsley founder of The National Training Center for Stone Maintenance Trainers, says it takes with a paste of salt and one part salt. Four parts fine and just enough water for the mix to reach the consistency of ketchup. Let dry, scrape off, and rinse.



Exterior: Plumbco Zircor medium contractor kit (\$161, \$50)

Throw everything you know about wood out the window.



Wood: Plumbco Zircor medium contractor kit (\$161, \$50)



Exterior: Plumbco Zircor medium contractor kit (\$161, \$50)



Wood: Plumbco Zircor medium contractor kit (\$161, \$50)



JELD-WEN windows and doors made with Durastar™ wood will remain beautiful and worry-free for years. Unlike dyed wood, Durastar wood is protected to the core and guaranteed to resist decay, water absorption and termite infestation for 20 years. To request a free brochure about Durastar wood or any of the window doors and windows JELD-WEN makes, or to find a dealer near you, call 800-873-9422 ext. 1006 or go to www.jeld-wen.com/7118.

RELIABILITY for real life™

JELD-WEN.
WINDOWS & DOORS



TOP DESTINATIONS

REVISITING THE EAST PARK HISTORIC DISTRICT
IN GREENVILLE, SOUTH CAROLINA

LISTED IN THE NATIONAL REGISTER OCTOBER 4, 2006

The East Park section of Greenville, South Carolina, started as a planned community, but then it kept on being a neighborhood, improving and adding to its character.

After the early 1900s, the neighborhood was a mix of Tudor Revival, Prairie School, and Craftsman styles. In the 1920s, it was designed as the epitome of luxury and elegance, more of a village in the city than a suburb. East Park offered an escape from the city and the noise associated with downtown Greenville, a burgeoning textile industry located along the banks of the Rocky River.

Even today, the district's homes are a mix of styles, with the grandest homes, some built with high-end materials, standing "side-by-side" but with a lot of character. And residents are just a quick stroll from the park, the historic district, where the 1920s teachers, engineers, and scientists gathered for political action on the streets that led to the creation of the Rocky River—just across the way.

A cluster of these early homes have been repurposed as the Peace Center complex, a performance venue that's now home to the Billy Joel Musical. And the historic district's own Peace Center complex, a performance venue that's now home to the Billy Joel Musical. And the historic district's own Peace Center complex, a performance venue that's now home to the Billy Joel Musical.



TOP: ROBERTSON IN 1900, in downtown Greenville, circa 1900. A Tudor Revival in East Park, a two-story bridge over the Rocky River, presents a view of a historic house in the Peace Center complex.

TEST KITCHEN

NEW EXPERIENCE STORES LET YOU TRY HOME GEAR BEFORE YOU HAND OVER YOUR CREDIT CARD

HAVING TROUBLE DECIDING WHICH washing machine to buy? Take your day laundry along when you drop off your jacket which needs a wash, or your car which needs a detail. Or maybe you want to make sure your clothes will fit in a new closet or whether Greenville's climate can take the heat of an indoor pool in November. Just pick up your groceries and cookware, and head to the appliance showroom for a demo.

Manufacturers, including Maytag, Viking, Dacor, and Whirlpool, now let you get up close and personal with their wares before you bring them home. The stores behind these so-called "experience stores" at these companies will be more apt to buy a big machine now after they've seen how it handles. "You wouldn't buy a car without driving it first," says Trippie Sotolongo, a spokeswoman for Kohler, which recently opened its first store in Chicago's Millennium Park. There, toilets, tubs, and showers are hooked up so you can feel the flow behind a whirlpool jet or see your hand under an air-dry towel rack. Technologies, too, can sit back at easily check at 28. Sony stores nationwide, watching a DVD on the latest high-definition plasma screen while surround-sound speakers pump out the soundtrack.

Now that you can close your clothes, cook dinner, do the dishes, and exercise the family while shopping, all that's left to do is sleep over at the makers' house. —ELLEN HANCOCK



PHOTO: EAST PARK HISTORIC DISTRICT; PHOTO: JAMES H. HARRIS; PHOTO: JAMES H. HARRIS; PHOTO: JAMES H. HARRIS; PHOTO: JAMES H. HARRIS



Hand-crafted hardwood flooring by the Anderson family. **Anderson** *It fits you.*



Save These Old Stone Walls

New trend in salvaged-stone architectural features threatens history



A truck and its owner with "We buy stone walls" stenciled down the side in Mansfield, Connecticut.

THROUGH SOME EYES, the old fieldstone walls that crisscross the Northeastern landscape look more like dollar signs than historical artifacts. Back by 19th-century farmers to enclose livestock and protect crops, the walls are increasingly being dismantled and sold to local entrepreneurs to meet a growing demand for salvaged-stone fireplaces and home walkways.

While most walls are taken down by property owners, others dubbed "roadkill" have also been known to be used with purpose: of walls under the cover of night as when a curfew is out of town. William Hubbard, a victim of such theft, watched the stone wall that edged his 150-acre 1793 forested "shrub" block by block.

"The price of better-sorted stone has gone up to the stratosphere," says Hubbard. "To some people it's worth standing for." Most New England stone walls still a part of old fieldstone—just enough to keep a flower bed—their stone \$216, up 45 percent from \$145 in 2001.

Despite escalating demand, about 150,000 miles of historic walls, or half of what once stood, remain from Maine to Pennsylvania, and preservationists want to make sure they stay there. Leading the way is Dr. Robert Thorne, a University of Connecticut geology professor and founder of the Stone Wall Institute, a 1,000-member group dedicated to preserving the appreciation, investigation, and conservation of stone walls. "The stone wall is the signature for the rural New England landscape," Thorne says. In addition to serving as reminders to America's agricultural beginnings, the walls are an important part of the ecosystem—providing homes for birds, chipmunks, and field mice, and helping prevent soil erosion. "The hidden cost of losing a beautiful fieldstone game might be taking the biodiversity and beauty from the land," he says.

To preserve the historic resource wall will use stone in home and landscape design, Thorne suggests buying new stone and applying to the surface a mixture of limestone and moss—one of several "Mosses for Stone" he says will speed up the aging process and augment the look of a well-worn path. —ASHLEY FRANKLIN



TOP: A granite fieldstone wall supports a barn near Mr. Hubbard's in New Hampshire. LEFT: Walls with holes in northern Rhode Island. BOTTOM: The "fence" wall in northern Rhode Island, an example for the typical in between-the-trees.



PHOTOS COURTESY OF STONE WALL INSTITUTE; TOP COURTESY OF STONE WALL INSTITUTE; BOTTOM COURTESY OF STONE WALL INSTITUTE

"I didn't know tractors, but I knew what I WANTED to DO."

7000 Series Tractor 6600 Series Tractor 7500 Series Tractor 8500 Series Tractor

Peggy Sundberg rescued neglected horses and wrote a popular kids' book about them, at her Colorado ranch—with a helping hand from her very horses. John Deere tractor and John Deere Utility Vehicle.

"It always started a horse ranch. When I got here, it was just me, my 40 acres and my John Deere. I had to build a house, rework the stable, and the horses were just there. It was a lot of work. Who's worth it? Look around. What do you see?"

JOHN DEERE

Put your dreams in motion. Visit your John Deere dealer today.

www.john-deere.com

Nothing runs like a John Deere.

Easy-to-install Lutron dimmers change the mood of your rooms and save energy, too.



Experience beautiful ambience while saving energy and making light bulbs last longer.

Select your perfect light—ambient, task, or luxurious, and Lutron technology will save you money in the long run.

From the world's most celebrated buildings to your celebrated home, Lutron controls are the choice of professionals everywhere.



© 2008 Lutron Electronics Co., Inc.

WIN your energy bill paid for 10 years!

Enter for a chance to win \$10,000 toward your energy bill or other prize. Visit a participating home center, hardware store, electrical distributor, lighting shop or Lutron website.

www.lutron.com/energyprize or call 877.455.5166 for more details and complete sweepstakes rules.

Dimmers, dimmer with on-off switch and Claro, wireless

LUTRON

Lutron controls your light.

BATH DESIGN

One corner of the bathroom is cut off an angle to keep people from making their shoes go the way to the shower or sink. The beginning of the corridor cuts across the lines of the tub. After several closets and doors, Robles and her partner present a feeling of surrealism by the way.



Split Decision

Carving a master bath into two rooms allows the whole family to use the house's one, luxurious tub

BY J. HARRIS

PHOTOGRAPH BY ANDREW BORDWICK

REPLACING BATHTUB WITH SHOWER STALLS one way to free up bathroom space in an old house. But it can also spell a long wait for family members who want to have a luxurious soak in a top-rated tub. So when Mandy Sherman and her husband, Rick, made the rounds to showrooms throughout Chappaqua, New York, home, the couple knew they wanted to find a way for the four of their kids (living at home) to comfortably use the new glass-enclosed tub they planned to install in their renovated address—while preserving a private cleanup area for themselves.

Local architect Robin Proulx Zalus came up with a unique solution. Divide the bathroom in two, with the tub and shower in one room and a sink and the toilet in an adjoining half-bath. Such a split would come in handy when the door is closed, when the tub is being used. But when the door is open, the kids can see their parents while Mandy and Rick want to get ready for bed. Finished with warm, warm, and vintage look, however, the two parts of the bathroom are united by a pair of the creamy-frog leg style that couple owns the rest of the house. The tub room also features a low-deck glass window that's installed on a set of stairs to brighten the interior.

These days the mood around the house is brighter as well. Says Mandy, "Now my children can even hold the master bathroom room. It's worked out really well."



LEFT: The 6-foot-joint Kwikset tub sits in a room with a 6-ft-6-in marble slab and breakfast nook. A generous front closet is right outside the tub room door.



ABOVE: A view into a heated glass window brought in a vintage yard. Glass light from the tubs has a natural, light feel. The selected window is a separate half-bath, so they are accessible when the tub or shower is occupied. In both spaces, Everglades shows a standard of green paint the walls above the breakfast nook.



The Plan

>> Create truly separate tub and toilet rooms to preserve privacy



WHAT THEY DID

1 | REIMAGINED THE FOOTPRINT A steep slope in the backyard made leveling the master suite address (what you house an office and a library) on the side of the house the most practical option. As a result, the master bathroom configuration is a larger than a deep like the rest of the kitchen.

2 | ACCELERATED THE TURN-OF-ROOM The 6-foot tub, which is the center of the new master bath space, shares the main room with a 3-ft-6-in shower and a single sink.

3 | CREATED AN ANCHORING HALF-BATH Located between a second toilet and a separate toilet, the 6-foot tub is a member of the family to use different parts of the master bath at the same time without sacrificing privacy.



YOUR WILL combine to create a space and to a new world. Workshop, p. 101

Other ideas for expanding vision's include: www.kwikset.com/bathrooms



SO STRONG AND ATTRACTIVE,
WHY STOP WITH THE FRONT DOOR?

There is something about a door made of Kwikset that makes more attractive. Or more secure. Especially when you consider the array of contemporary designs, classic styles and elegant finishes that Kwikset offers. Or the innovative engineering—including titanium and stainless-steel components on our UltraMax Security line—that has helped give Kwikset a legendary reputation for strength and durability. No wonder more people trust their doors, fronts and rail to the strength and beauty of Kwikset.

America's #1 selling lockset.

Get a handle on the full range of Kwikset designs and finishes. Call 800-321-1-DOOR. Or visit www.kwikset.com

KEY TO YOUR DREAMS
SLEEPERS
WIN A \$100,000 PRIZE!

Visit www.kwikset.com and play every day for your chance to win a \$100,000 Dream Prize! No purchase necessary.



Kwikset
THE BEAUTY OF STRENGTH™

handrails

Herscovici's homeowner Laurent Flint needed handrails in his stairways, but was puzzled by how to put them in. He emailed *Ask The Old House*, and Tom Silva showed up to lend an expert hand.



irrigation

Outside of Los Angeles, Roger Cook and specialist Bob Gelbreath help homeowner Sherry Steele restore water to her slice of the High desert.

sinks

Minnesota's homeowner Julie McClellan tried to fix her rusty bathroom sink, clapper with a poplite clock. Richard Trelorey provided a more professional solution.



closets

California's couple Brandon and Christine Gaudin's stinky closet doors were stuck. They emailed *Ask The Old House*, and Bob Bell put them back on track.



what's your problem?

Tune in this fall and watch *The This Old House Hour* on PBS to see if we have the answer you're looking for.



Visit www.thisoldhouse.com/tv/schedule to find out when shows are on in your area.

THANK YOU TO OUR NATIONAL SPONSORS FOR ALL THEIR SUPPORT:



Pick a Number

» The right digits can say a lot about your house.

BY C.J. BUCHHEIT PHOTOGRAPHS BY ANITA SALERIO

IN RECENT YEARS, the design world has turned its attention to every detail of a house, down to the smallest door hinge and outdoor vent. Not only do some homeowners that house matters, even practically the form of wall carvings and porch delivery gaps, have gotten high-style makeover.

Instead of the plain them or just-and-which variety, you can choose richly colored, hand-made ceramic tiles with intricate borders or sleek hand-painted ceramic tiles inspired by such architectural icons as Richard Neutra and Frank Lloyd Wright.

And it's all in a tile is a tile, a closet's not a lot to give your everyday space and pattern. So instead of just helping the postman deliver your laundry, let your numbers make a statement.



ARTWORK

Looking for a way to add a little more style to your home? The art of the tile is a great way to add a little more style to your home. The art of the tile is a great way to add a little more style to your home.

TECHNOLOGY

Need a little more style? The art of the tile is a great way to add a little more style to your home. The art of the tile is a great way to add a little more style to your home.

THINGS TO DO

The art of the tile is a great way to add a little more style to your home. The art of the tile is a great way to add a little more style to your home.

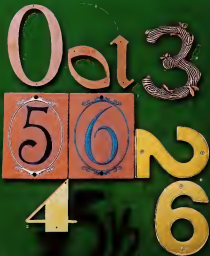
MOVING FORWARD

The art of the tile is a great way to add a little more style to your home. The art of the tile is a great way to add a little more style to your home.

FINALLY SPEAKING

The art of the tile is a great way to add a little more style to your home. The art of the tile is a great way to add a little more style to your home.





0: MONDRIAN-INSPIRED
These numbers, designed by Dutch designer Hella Jongerius, are made of a dark, textured fabric. They are available in various colors, including the 0 and 1 shown here. \$25 each. www.hellajongerius.com

1: MONDRIAN-INSPIRED
These numbers, designed by Dutch designer Hella Jongerius, are made of a dark, textured fabric. They are available in various colors, including the 0 and 1 shown here. \$25 each. www.hellajongerius.com

2: VICTORIAN
These numbers, designed by Victorian designer William Morris, are made of a dark, textured fabric. They are available in various colors, including the 0 and 1 shown here. \$25 each. www.williammorrison.com

3: BASIC BRASS
These numbers, designed by a basic brass designer, are made of a dark, textured fabric. They are available in various colors, including the 0 and 1 shown here. \$25 each. www.basicbrass.com

4: ART DECO
These numbers, designed by Art Deco designer, are made of a dark, textured fabric. They are available in various colors, including the 0 and 1 shown here. \$25 each. www.artdeco.com

5: KINETIC
These numbers, designed by Kinetic designer, are made of a dark, textured fabric. They are available in various colors, including the 0 and 1 shown here. \$25 each. www.kinetic.com

6: KINETIC
These numbers, designed by Kinetic designer, are made of a dark, textured fabric. They are available in various colors, including the 0 and 1 shown here. \$25 each. www.kinetic.com

7: KINETIC
These numbers, designed by Kinetic designer, are made of a dark, textured fabric. They are available in various colors, including the 0 and 1 shown here. \$25 each. www.kinetic.com

Get a full list of all the numbers and letters at www.hellajongerius.com

WHAT'S HOT/WHAT'S NOT

INNOVATIVE TECHNOLOGY CHANGING PEOPLE'S LIVES

HOT: A Super Sleeper
A CD that programs your brain to go deeply to sleep...quickly!

THE FACT IS THAT everyone needs

sleep. The problem is that over 100 million Americans have sleep problems. Many of these people turn to sleeping pills for help. Now, you can thank Speed Sleep® for a drug-free solution to achieving deep sleep. Speed Sleep® is designed to focus the mind and body to

accelerate the process of going from awake down to the deepest and most restful levels of sleep - just by listening to the Speed Sleep® CD repeatedly. Two tracks are provided. One for a rejuvenating nap and the second one for going deeply to sleep at bedtime. You awaken fully rested and energized. Available at www.spendsleep.com or 1-888-41-SLEEP



INNOVATIVE THINKING. IT'S WHAT SETS US APART.

Since 1855, Varathane has been setting the standard in the wood care industry. The first polyurethane. The first gel stain. The first water-based polyurethane. The first water-based floor finish. And now, says of based premium wood stains.

And then, in 2003, Varathane was the first to introduce Real Tree Stain Packs. Available in each of Varathane's 24 beautiful stain colors, these convenient packets help take the guesswork out of wood work by ensuring you'll get the right color the first time, every time. Since the introduction of real tree stains, woodworkers and wood finishing experts (with some competition) have embraced the idea. Chalk up another groundbreaking innovation to Varathane.

NOTHING RUINS YOUR WOODWORK LIKE THE WRONG STAIN COLOR.

Varathane spent years creating the perfect palette of 24 colors, working closely with top furniture makers analyzing industry color trends, conducting extensive consumer research

WE HAVE A REPUTATION FOR BIG INNOVATIONS.

NOW, HERE'S A BUNCH OF LITTLE ONES.



Varathane's Exclusive Real Tree Stain Packs. Finishing The Way to Realize the Perfect Finish.



Varathane
WOOD'S FIRST CHOICE®

We ended up with 24 striking colors that consumers prefer more than 2 to 1 over the colors of Minwax® Wood Finishes. You've worked hard to perfect your woodworking craft. We've



worked hard to perfect your choice of premium wood stain colors. And now with these real tree packets, it's easier than ever to select the one that's perfect for your project.

THE VARATHANE ADVANTAGE.

Here's what makes Varathane a superior wood stain: the perfect formulation of rays of light and superior pigments. Varathane ways nothing less than ultra-fine silica silica oil in all of its stains. It's clearer and lighter, so it provides a wider range of color than stains made with linseed oil. And our premium, translucent pigments are much smaller in particle size, allowing for superior color penetration. Of course there are other ways to make stains. But none better.

To learn more about products and projects, and for professional tips on woodworking and wood finishing, visit woodmatters.com/Varathane.

Varathane is a registered trademark of The Rust-Oleum Company. Varathane Real Tree Stain Packs are trademarks of The Rust-Oleum Company. © 2008 Rust-Oleum Company.

RUST-OLEUM
WOOD CARE

© 2008

SALVAGE



Old Doors, New Uses

Placed at an entry for security or between two rooms for privacy, salvaged doors add texture and character to a house

BY AMY B. HUGHES PHOTOGRAPHS BY ALLOON DUNN



FOR CENTURIES, DOORS have had one meaning and purpose: shut out storms, and guard against eavesdroppers. They've also provided a handsome focal point, whether placed inside a home or on, with hand-painted panels, arched tops, or leaded glass inserts.

Now, doors sold at home centers today are little more than uniform molded panels or plain woodwork slabs, special-order models from lumberyards offer better design and craftsmanship. But for doors with a timeless patina or made from old growth wood—small of which isn't logged anymore—visit an architectural salvage yard. There you'll find models in each range of period taste, from styles, and in both painted and stained. A matched set of six-panel interior doors rescued from a discolored 17th-century house, for instance, would be period-appropriate replacements for the hollow cores in a new Colonial Revival. And a 19th-century iron door with wrought-iron strap hinges could be incorporated as a rustic partition gate between two rooms.

New doors come in standard sizes, but old ones were often made-to-order by a finish carpenter. To measure your doorway before buying a salvaged door, calculate the distance from the inside of one side jamb to the inside of the other, and from the threshold to the header. Then subtract 1/2 inch from each measurement to provide clear space for the door swing.

A salvaged door should be perfectly straight so it will open and close properly. Check it for warping or twisting by tipping it on one of its bottom corners and looking down the length of the edge.

It is often possible to cut down an old door by an inch or so on the top, bottom, or sides, using square-cutting the original proportions. If the door is too small, you may be able to enlarge it

Turn Old Doors Into a Windowed Wall

When Steve Brown and Myra Khosravi decided to turn a series of changed rooms in their 20th-century home in Brooklyn, New York, into an open, sunlit space, the couple had the thought of inserting a wall of window glass. Art is what you don't want that resulted in the creation of a wall suited for decoration. "We wanted to keep the doors, but we had to remove the wall," says Khosravi. "That one day it was like, 'Ah! My couple there was a design element.'" The couple reused the doors as large interior windows set into a brick interior wall bearing wall structure in the middle of the new figured space. Khosravi says it's a habit in the work of Khosravi that they like the stability of doors, but only in the situation where the door is otherwise defined as the border of the new kitchen, hallway and living areas while preserving a sense of openness where the windows allow light to pass between the rooms. —JENNIFER KNOX



an old door. Stained ones typically don't require stripping, while ones coated with layers of peeling lead paint. Many of Miller's customers prefer the look of stain, which deepens as color soaks in. The downside is that these doors tend to be more expensive, ranging from \$15 for a single panel interior model to \$1,800 or more for an oak, hick and Crafts-style exterior door inset with leaded glass. Painted or doors aren't as about \$15 and go as high as \$60 for a pine Georgian style, once-gilded front doors good example.

If you like the look of an old door but don't have a place to hang it, use it as a display, a wall-mounted headboard, or group it with two others to create a tripartite folding screen. In the kitchen, turn a door on its side as a decorative panel for the front of a breakfast bar. You can even hang doors horizontally on the wall for an alternative to traditional wallcovering, says Miller. He advises a customer look by using doors that are the same style, height, and width, fastening the vertical seams with wood glue and taping the panels with a clear film. Depending on how high you want the wallcovering (50 to 40 inches is standard), you may want to install a wall headboard for the doors to hang on.

When her conservatively designed or used as a display, an old door can improve the look and feel of a house. Just remember to match them to their surroundings if they're going to become part of the endowment. "I like to think of a door in a house like a person in a frame," says Miller. "You wouldn't want to put a simple portrait in a very ornate frame, just as you wouldn't want to use an Art Deco door in a Queen Anne house."

Hang the right style, however, and you'll add a handsome, historical feature—one ready to stand strong for many more decades of living. ■

For pricing and more information, visit www.millerdoors.com/interiors



"The French dip sandwich was invented in my living room."



Thanks to HGTV's Restore America, this historic office building, containing the oldest continuously running restaurant in southern California, is being saved and transformed into residential homes just like yours. And so are many other historical landmarks across the U.S. Find out what you and your family can do to help your community at HGTV.com/restoreamerica.

Proudly sponsored by

Bank of America

RESTORE America

In partnership with

NATIONAL TRUST
A SERVICE FOUNDATION

LOAN'S

MARYVON

YOU SHOULD SEE WHAT'S ON HGTV!

OUR OWNERS
OUR RESTORERS

HGTV.com



A 20' x 35' extension of you

Images, your perfect home. A custom-made Trex deck will meet your preferred style, color and finish. It's built to last, with a 25-year warranty. And TrexDeck will look beautiful, even in case for those who worry about the look of a new deck. TrexDeck is made of many free components, all of which are made of 100% recycled plastic and wood. It's built to last, with a 25-year warranty. And TrexDeck will look beautiful, even in case for those who worry about the look of a new deck. TrexDeck is made of many free components, all of which are made of 100% recycled plastic and wood.

your dreams. Call 1-800-875-3363.
 800.1364 or visit www.trex.com

Trex
 Create Your Space™

LANDSCAPING



Prime Time for Pruning

» Make a few key cuts now to shape up your landscape for the year ahead!

BY ASHLEY WENDEL
 PHOTOGRAPHS BY BOBCH PHOTO
 PHOTOGRAPHY BEENA KAMBI

THOUGH IT MAY SEEM THE BEST TIME TO PRUNE—cold, even—lopping off limbs and cutting back branches can be the worst in keeping shrubs and trees strong, healthy, and looking their best. “Made correctly, a few cuts can encourage thicker foliage, bigger fruit or flowers, and a broader plant,” says Bob Rowen, a horticulturist and a landscaper who is director of accreditation for the Tree Care Industry Association. “And the best time to prune is now, in late winter or early spring, before buds start to swell and open and what the threat of frost is past.” Make pruning part of your annual spring maintenance, and cuts will generally be unobtrusive. Avoid big, deep, and you may find yourself wrestling with an overgrown thicket of woody stems. All it takes to keep your yard looking neat is making a few simple pruning techniques and figuring out the right timing. For the specifics, read on.

THE

“Pruning” cuts made in early spring, even every few to three years, will keep the flow of a healthy plant under control, says Bob Rowen, horticulture contractor Roger Cook.

Stevens 1972 but no Prange 1972b.

IN LATE WINTER & EARLY SPRING
Fry are these pre-molted and summer
flowering should be from (one leaf out)

- Akita
- Banaberry
- Cape Verde
- Dominica
- Japanese cherry (Shimoda, Shikoku)
- Japanese upland (Suzuki, Japan)
- Purple hyacinths (Kobayashi, Japan)
- Snow of Shima
- Snow of Ise
- Sunflower
- Tsunami

IN LATE SPRING & EARLY SUMMER
 many these organisms and spring
 from the water after they bloom

[illegible]

WOULD YOU TAKE A LEAVE TO REPAIR THE CATERPILLAR DRIVE AND TIRE?
Hickman, p. 12

74

Basic Printing Costs



HELPING CUTIE

They remove only part of a stem or limb and encourage side branching and dense growth. The cut should be made just beyond a healthy bud (usually 45 degrees), and being sure leaves like bud scale. The new shoot will grow in the direction the bud is pointing.

Downloaded by [University of California, San Diego] on 09 June 2016

These various scenarios strongly affect it costs, whether one is in the main trunk, and should be made as close to this situation as possible. These calculations encourage the growth of productive new wood and open up selective branches to light and air.

Shrubs

Unless you're attempting some Edward Scissorhands moves with scissor shears or even cutting a fine and hedge, the aim in pruning should always be to preserve a plant's natural shape, even if you want to make it more formal. The first step is to clean up the plant by removing any dead or broken branches, stem decay or insect damage. The second depends on your philosophy. To encourage a young shrub to fill out, grow bushier, snip off growth more flowers, use "heading cuts" to trim long, inflexible stems just above a healthy bud to encourage lower side branches to develop (see "Basic Pruning Cuts," below). Just aim to remove no more than one-quarter of the main overall length. On more mature or overgrown plants, you'll want to remove old, weak, rubbing, or wayward branches when they merge with another branch, the main stem, or the base of the plant. These "damaging cuts" open up the interior of the shrub to more sunlight, encouraging the growth of vigorous new stems. Always remove the oldest stems first and don't remove more than one-third of the plant's mass in any one year. Occasionally fresh kinds of cuts are made at the same time or were the shape of a healthy plant and evolve as unique branch structures evolve.

When it comes to flowering shrubs, timing can be everything: if you don't want to tip future blooms in the bud, summer-flowering shrubs should be clipped *now* while they're still dormant and buds haven't formed. But wait to cut back spring-flowering plants, which formed their buds the previous fall, until after they've made their show of blooms. "It's ideal, too, to prune until after the flowers turn brown," says Kenner Cook. "So you're sure to see it this year and have flowers next year."

2. To even out lopsided brows, try cutting back the less vigorous side first while it's still dormant and leave the better one alone. This encourages a flush of new growth where it's needed most.

Please discuss and use properly and properly: Walter@wagner.com



TOO BAD YOU HAVE TO GIVE IT BACK.

The Home Depot® is the best place to rent the right tools. We carry more tools and more more tool locations than anyone else. Anything that makes your project easier, we rent it. Large tools. Small tools. Inexpensive tools. Superior brands too. Use Husco® and Black & Veatch® tools every day. You have to use the equipment properly, and only The Home Depot can get you all the training.


**Tool
Rental**



Web Tree Branches to Private

1. Suckers that grow up from the roots or base of the trunk.
2. Limbs that grow downward or too close to the ground.
3. Branches that form an acute angle with the trunk.
4. Water sprouts that shoot up from the main "scaffold" branches.
5. Limbs that are not dormant or terpen.
6. Branches that grow parallel to and too close to another.
7. Branches that cross or rub against others.
8. Limbs that compete with the tree's central leader.



The ABCs of Branch Removal

To remove a branch
and T_A influence
diagrams make these
rules with a crossing line to
keep them straight. The last

- At least 10 to 12 inches out from the trunk, cut the underside of the branch about a quarter of the way through.
- Make the second cut on the top part of the branch, slightly further from the trunk so that the tree will be able to close without damaging the tree.
- For the final cut, hold the stub and saw through the branch as close as possible to the branch collar without damaging it, so the cut is not visible.

Tree: W bar to Prune W bar

IN LATE WINTER & EARLY SPRING
The new flowers are beautiful, and the old

- Apple
- Apricot
- Chadla tree
- Cherry
- Grape/mistle
- Goldenrods
- Peach
- Pear
- Plum
- Quince (*Cydonia oblonga*)
- Sweet bay

IN LIFE SPENDING: A EARLY SUMMER
From a three-dimensional and spring
flowering tree when blossoms begin

- Cubiceps
- Degener
- Flowering shoot
- Flowering shoot (Panicum termites)
- Finger tree
- Heart of the
- Magnolia
- Oreocaulis (Panicum termites)
- Railroad
- Servicing
- Shrub

Trees >> Tanning cuts open up the interior to light and air

Large growing young ones and they're well established, they need as many leaves as possible to create food for maximum root growth. On large trees, cut remove any low hanging dead, diseased, or low limb limbs that could be a safety hazard. You may also want to "limb up" a tree by removing some lower branches to create branches, reduce shade, or keep the tree from blocking the view of your house. Also take off any branches that cross or rub, grow downward, or compete with the leading, dominant upright stem at the top of the tree. Also prune suckers, branch that grew up from the base of the trunk. Also to remove or cross them on south of the tree's root, wood is not very

When taking off a limb, place it as close as possible to the branch collar (the swollen area at the base of the branch) without cutting into it. This allows for optimal healing, no wound dressings required, a quicker snub, and on the other hand, can dry out and cause the tree vulnerable to disease or pest infestations. Small branches, less than 1 1/2 inches in diameter, can be removed with long handled loppers. For arborists, there are a dozen or so procedures how "The ABCs of Branch Removal," shows

From fruit-bearing trees to branches are well spaced, but don't cut back too hard when they're dormant or you'll get a flush of new branches that block sunlight from the buds with fruit. While arborvits usually prune trees that bleed sap, such as maple and birch, it's still better to up running along the trunk can be avoided. "Because you won't do any harm," says Rouse.



When planting: remember to mound for a 10-in.-diameter mature size. "Ninety-plus percent of the time, homeowners call us because [between a plant] has outgrown its space," says Roger Cook.



**Nicorette fresh mint™
is the best tasting nicotine gum.**

(which is convenient, since now that you've quit, you can actually taste things again.)

Nicorette
fresh mint

Your taste buds wake up when you quit smoking. Then, again, you can taste all sorts of things, including the nicotine gum you're using to help you quit. Which is why you should quit with Nicorette Gum. It's the first-tasting nicotine gum.

Start chewing. Start quitting.

© 2005 Pearson Education, Inc. All rights reserved. This publication is protected by copyright. Any unauthorized use or distribution of this work is prohibited. For more information, contact Pearson Education, Inc., 501 Boylston Street, Boston, MA 02116.

WE DON'T KNOW
HOW YOU'LL
USE IT, BUT WE
KNOW HOW
YOU CAN WIN IT.

Get ready to experience
the pinnacle of
professional grade
engineering firsthand.
Simply visit the GMC
display at a This Old
House-sponsored event.
Then enter for a chance
to win the GMC vehicle
of your choice and win
a trip to the set of
Ask This Old House*.

This Old House®

HOME & GARDEN SHOW SERIES

PRESENTED BY

GMC

WE ARE
PROFESSIONAL
GRADE®

2006 SCHEDULE OF SHOWS



HOW HOME IMPROVEMENT SHOW
Rock Financial Show Place, Detroit, MI
January 27-29



NATIONAL CITY CLEVELAND HOME & GARDEN SHOW
H Center, Cleveland, OH
February 4-12



THE TEXAS HOME & GARDEN SHOW
Baylor Center, Houston, TX
February 18-22

SEATTLE HOME SHOW
Dewitt Field Event Center, Seattle, WA
February 19-26

PORTLAND HOME & GARDEN SHOW
Portland Expo Center, Portland, OR
February 22-26

QUÉBEC LIGHT HOME & GARDEN SHOW
Pittsburgh Expo Center, Pittsburgh, PA
March 2-12

LOUISVILLE HOME & GARDEN SHOW
Kroger Field & Expo Center, Louisville, KY
March 10-12

25TH ANNUAL BUILDERS' HOME & GARDEN SHOW
America Center, St. Louis, MO
March 16-19

HOME DESIGN & REMODELING SHOW
Broward Co. Convention Center, Ft. Lauderdale, FL
May 26-29

HOME DESIGN & REMODELING SHOW
Silver Creek Convention Center, Miami, FL
September 1-3

For Sponsor Information visit www.ola-expo.com

OLA **Expositions**

SAVANA



NONSTOP POSSIBILITIES.

GMC® SAVANA® CUTAWAY. ENGINEERED WITH REMARKABLE VERSATILITY.

The challenges of your business never end. That's why a vehicle with endless split potential is a necessity. With three wheelbases to choose from and a GVW range of up to 12,300 lbs,* the GMC Savana Cutaway is engineered for versatility. Designed with flat frame rails and exclusive inserts for easy cutting and body installation, it easily adapts to almost any configuration — including shuttle bus, high cube, ambulance, or school bus. Savana also offers a lineup of GM-generation engines, including an available DURAMAX™ 660 diesel I6. It's a superior technological advancement that delivers class-leading† 200 hp and 600 lb-ft torque, the most available V6 engine torque of any full-size heavy-duty van. The GMC Savana Cutaway. The versatility to take your business to new heights. Visit WWW.GMC.COM or call 1-800-GMC-6762.

*When properly equipped to the right of vehicle dimensions, cargo, and weight.

†Based on the 2006 model. Based on 2005 GM Light Truck segment.

Model shown with equipment that is not standard equipment. See the dealer's brock for equipment and availability.

GMC

WE ARE PROFESSIONAL GRADE®

GMC THE ORIGINAL PROFESSIONAL GRADE



Protect his habitat. And yours.

When you recycle your rechargeable batteries, you protect his habitat and yours. Find a local Call2Recycle site at www.call2recycle.org. Recycle your car, cell, cordless phone, laptop, digital camera, two-way radio, and more. Or, if you no longer hold a charge, please responsibly recycle www.call2recycle.org, calling 877-a-RECYCLE, or dropping them off at one of the thousands of retail recyclers.

Recycle your rechargeable batteries.

call2recycle

A National Battery Recycling Coalition program

Recycle your old cell phone and battery



Rechargeable Battery Recycling Corporation (RBRC) is a nonprofit organization dedicated to recycling rechargeable batteries and other sources. For more information, visit www.call2recycle.org or 1-800-8-BATTERY.

HOME TECH



Connected Cameras

» Thanks to the Internet, you can keep watch on your house from anywhere

BY JASON CHAPMAN
PHOTOGRAPHS BY TIM ROBERT

SOMEONE HAS ENTERED YOUR HOUSE—and stolen thousands of dollars' worth of valuables. It's looking pretty bad, because he knows you're on vacation. What he doesn't know is that your security cameras caught him on the act. The camera, which you cleverly concealed near a breakfast nook, is so small that he didn't notice it, yet it's powerful enough to zoom in on his face and clearly identify him. Traditionally associated with public places like airports and retail stores, our webcams are turning up in more and more homes. Thanks to rapid advances in video technology and the fact that more than 120 million people in the U.S. have access to a broadband Internet connection, homeowners can be access to a camera view from anywhere in the world.

"They're installed in a place that's more valuable than for just checking a meter," says Paul Allen of Masconia, which recently launched a new line of webcams, home monitoring system called HomeCam (about \$300 for a starter kit). "As the technology has advanced, we can make an affordable camera and also give you color video and sound recording capability."

There are plenty of good reasons for having one of these gadgets, and they're not all about the fear of accidental bludge. You want to make sure the kids put books safely from school, or to see whether John received back his brother's perforated cherry pie. Most systems allow you to watch and control the camera from any Internet-connected computer through a simple Web browser, others let you give commands and view images via cell phone. Some will even e-mail you video clips at specific times you set, or when the camera detects motion.

CAMERA FEATURES

Depending on how much of your home you want to monitor on how much you're willing to spend, cameras range from simple, fixed cameras to James Bond-style models equipped with night vision and sensors that can detect suspicious objects based on size. But most so-called "network cameras" offer some combination of these basic functions: pan (left-to-right movement), tilt (up and down), and zoom (close-up).

- 1) With 42X zoom and 360-degree pan/tilt, this PerleNet Vision model from Panasonic is one of the most feature-rich network cameras available. About \$1,000; panasonic.com
- 2) A sleeker mid-sized camera from Sony can hide almost anywhere and boasts high-quality video, stills, and zoom. \$800; sony.com
- 3) The Wireless-G UltraNet Vision Camera from Linksys can be easily added to a home wireless network and programmed to send e-mail alerts when it detects motion. \$250; linksys.com
- 4) Motorola's NightViz wireless camera lets users, with a camera you connect anywhere and control remotely, find defects in your driveway or window frame from up to 3,000 feet away. \$200; motorola.com



PerleNet Vision from Sony Security

A camera with 360-degree panning, for example, works well if you want to be able to monitor several areas at once. Mounting one of these on the ceiling in the corner of an open space provides an effective, if not aesthetically pleasing, means of surveying an entire room or floor.

The more tilt capability a camera has, the more you'll be able to see, especially when it's combined with a pan feature. A camera with at least 70 degrees of pan and tilt is perfect for a corner of a room, allowing you to see floor to ceiling.

If you want to be able to look at the license plate on a car parked across the street, you can get a camera with up to 42X optical zoom, but 4X is plenty to get a good look at somebody's foot, even from across the room.

SIMPLE SETUP

Network cameras come in both hardwired and wireless versions. Hardwired systems require you to make a hole through the wall, and once installed can't easily be relocated. Wireless cameras, on the other hand, are quick to set up and can be moved from place to place.

"If someone already has a wireless network, nothing more is required," says Trevor Krieger of Linksys, which manufactures a line of network cameras. If you're going wireless for the first time, you need to be aware of the potential for interference from cordless phones, appliances, even walls between the camera and the wireless router. These can degrade signal strength and diminish video quality.

Once you've decided where to put the camera, make sure there's a power source (either a power outlet or a battery pack). After mounting the camera—most come with the necessary hardware and screws—follow the setup wizard on the CD-ROM that comes with it. The software will walk you through setting up your computer network and creating a unique user name and password, two essentials for ensuring that nobody hacks into your surveillance stream.

WATCHING THE PLAYBACK

Network cameras record directly to your computer's hard drive. "They record one file 15 Mb," says Gregg Simons, whose business of installing high-level home-video monitoring systems in Los Angeles has tripled in the last three years. In camera space on your hard drive, you can set the camera to record only when it detects motion, leaving you with just a few minutes of video to sort through.

When viewing footage, the image can be as small as a 2-inch square or take up most of your computer screen. The smaller the video, the better the clarity, plus you'll be able to view several video feeds at once if you have multiple cameras.

It's worth noting that cameras crank, which could prevent you from pausing into your video feed and watching flows of a person. By the same token, the camera system will go down if the power goes down. "If someone wants to break in but can't, they'll cut the power, camera or no camera," says Simons. But for peace of mind when you're far from home, an extra set of eyes is hard to beat. ■

Eon®. Natural Beauty that lasts.

Harvest your own with the long-lasting natural beauty of an Eon deck. The simple, sleek lines of an Eon deck create the perfect outdoor oasis. The relaxing, refreshing feeling of a deck made of natural wood is yours. The relaxing, refreshing feeling of a deck made of natural wood is yours. The relaxing, refreshing feeling of a deck made of natural wood is yours.

eon

NATURAL BEAUTY that lasts

Call 1-800-364-EON or visit www.eon.com to find your local dealer.

Eon decking • railing • fencing • sps & outdoor accessories

eon

1. Most walls inside homes are made of paper-faced drywall.

2. Mold eats paper.



3. If you eliminate the paper you reduce the chances for mold.

4. Georgia-Pacific introduces DensArmor® paperless drywall.

If you're building or remodeling and would like free literature on G-P Gypsum's revolutionary paperless drywall, DensArmor, call 1-800-768-0257. For technical information, call 1-800-225-6119 or go to www.densarmor.com.

 G-P Gypsum
a Georgia-Pacific company

©2004 G-P Gypsum Corporation. All rights reserved. 00000404 is a registered trademark of G-P Gypsum Corporation.

GREEN HOUSE



Healthy Homes

» Make your next remodeling project safer, more energy efficient, and better for the environment with the help of a green design consultant.

BY KATHY PARSONS ILLUSTRATION BY JULIETTE BORDA



ON A RECENT JOB, interior designer Marc Gagnon cut down on demolition waste (and saved his client money) by reusing Shouko from a demolished wall and doing it more than once, which he then started to create a national eco-design. Gagnon, based in Brooklyn, New York, came up with the idea in response to a request from the homeowner, who asked him to incorporate recycled building materials and what "green" approaches into the remodel. The result, in Gagnon's view, is as much about consistency as it is about sustainability. "Using green just adds another layer to design," he says.

Homeowners concerned about protecting the environment are turning up the heat on people like Gagnon. And it's not just the too-hanging, too-drawing, White House shopping or that's bringing the fire. These days, the demand for eco-friendly options is coming, apparently from the mainstream. According to a recent study by the American Society of Interior Designers, as one of 10 US homeowners say they would consider integrating green design principles into their home improvement projects.

There's just one problem: Once you get past the big programs, like Energy Star appliances and Forest Stewardship Council-certified wood, information about sustainable products and practices can be hard to find. Since the "green design consultant," a new category of home pro whose job is to help you incorporate eco-friendly materials and technologies into your own home-remodeling project.

"I have more clients now than ever,"

says Delta Lynn Dodd, an author, environmental health advocate, and green design consultant in Clearwater, Florida. Dodd works directly with homeowners—the recently helped a disconnect down the last two decades has on the market, for example—and also meet with architects and interior designers to discuss environmentally friendly options for their specs, such as installing a salvaged window casing for a new one, or adding whole-house water filtration. Dodd charges about \$120 per hour for consultations by phone, and \$150 in person.

While there is no formal training program for green designers, some, like Victoria Schoner, based in San Rafael, California, are credentialed by the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) program. LEED certification, which requires the passage of a written exam, assures that the designer you're working with is upon the latest technical and product innovations. Schoner, who specializes in air quality issues, charges up to \$125 per hour for her

services, which might include recommendations for the best heating or ventilation system for a particular house, as well as the most effective (and stylish) energy-efficient windows.

It's easy to understand why these folks are suddenly in demand. Consumers alarmed by rising energy costs are installing items like solar panels or a geothermal heat pump as a way to save money over the long haul. Others have health-related or aesthetic concerns, addressing their specs to make sure the wood for their new bookshelves won't be harvested from old growth forests and that the indoor air they breathe is as clean as possible.

According to David Johnston, a green-remodeling specialist based in Boulder, Colorado, being an environmental designer simply makes good economic sense. "If I can't save my client more than I'm costing them, then I'm not doing my job," says Johnston, the author of *Green Remodeling: Changing the World One Room at a Time*. An experienced consultant can

Finding a Green Design Pro

Tracking down a green designer can be difficult outside of more environmentally progressive places like California. "It's challenging, because there isn't a central repository of information," says David Johnston, who is working on creating a nationwide green-certification program for the National Association of the Remodeling Industry.

To find a LEED-accredited professional builder, designer or architect, visit the U.S. Green Building Council's website, www.usgbc.org. Click on LEED, then click the LEED AP directory. One of the designers mentioned in this story, Delta Lynn Dodd, says consumers updated to visit third-party products at www.usgbc.org. Consultant Victoria Schoner recommends building professionals, which provides sources for green building materials and gives contact information for architects, interior designers, and landscape designers.

realize your project from the bottom up, he says, keeping your ethical and budgetary concerns in balance. When it comes to choosing energy-saving products, for example, "I'll leave the knowledge of things like the most eco-efficient to the client."

He'll also know how to incorporate them without modifying another one. Designer Danny Seo, author of *Conscious Style Home: Eco-Friendly Living for the 21st Century*, has kept his business, the Marble Beach of the green movement. He lists a green-themed website and show and is in pre-production on his own "eco-styled" channel TV show.

"Environmentalists have been telling us for a long time the second road we can't take," says Seo, who attributes America's embrace of green design to major events. While the 1960s and '70s were all about consumption and money, he says, events of the 21st century "have made us start paying attention to the value of the world, instead of our own net worth."

But that doesn't mean they can't also look good. "We want comfortable homes, not just environmentally responsible alternatives," says Seo. "And these alternatives have finally caught up with design. Now it's style first, eco-style second, not the other way around." ■

10 leading sources for the eco-minded remodeler
www.outwardboundwilderness.com

SET A COURSE FOR A LIFETIME



Where is the most beautiful place on earth? Forests, deserts, rivers, mountains. At Outward Bound, we're one of 500 wilderness adventures. It's a challenge that will set your direction for a lifetime.

No Experience Necessary.

This is Outward Bound. This challenge belongs to you.

Outward Bound Wilderness

www.outwardboundwilderness.org
1-800-666-6666

Seo Says Here are some easy ways to save money, energy, and the Earth, from "eco-designer" Danny Seo.

- 1 Switch your outdoor lights to solar. "Today's solar lights are bright and hard-working. LEED lights are brighter than conventional solar lights and last long into the night."
- 2 Keep an eye on water waste. Drop some food dye in the toilet tank and wait an hour or so. Check to see if any of the dye has seeped into the bowl. If it has, you've got a leak.
- 3 The low-VOC (volatile organic compound) paints they're increasingly using to touch down these days, with big companies like Benjamin Moore manufacturing them.
- 4 When the batteries in your rechargeable tools wear out, recycle them. Visit Call2Recycle.org for the recycling drop box nearest you (they are often located in RadioShack, The Home Depot, and Target stores).
- 5 No matter what color carpet you choose, make sure it's green. Carpet that's carpet tiles, for example, are made from a mix of hemp and biodegradable fiber made of cane. Plus, they're recyclable.

ON SALE NOW!
Whitney Books are sold

THE BEST OF PRO FOOTBALL PHOTOS AND STORIES FROM THE WORLD'S GREATEST SPORTS MAGAZINE

also

INTRODUCTION BY
Rick Reilly

also

Dr. Z's
Decade-by-Decade
All-Pro Team

also

The Records of
Every Team
Every Season

also

Staggering Stats
Amazing Facts
Incredible Images

also



also

CLASSICS BY

Ray Blount Jr.
Myron Cope
Frank Deford
Don Jenkins
Peter King
Leigh Mooreville
George Plimpton
Steve Raab
Michael Silver
Gary Smith
Rick Telander
John Underwood
...and many more

also

An Extravagant 294-page Collection of Unforgettable Words and Pictures from SI



also

ALSO AVAILABLE BY CALLING 800-421-6691

Please allow 4-6 weeks for delivery

000000



Feel what better water does for you.



Water Journal™



ADVERTISEMENT

EASY DOES IT

Do-it-yourself fixes
that will save you
money.



If you've ever called an expert to handle a home repair, only to write a check amounting, "I could have done that myself!" you're not alone.

On the PBS series *Mandy McLean*, home improvement expert Beverly DeJulio plays host to millions of viewers who want to know if, and how, they can indeed do it themselves.

"Depending on where you live, it can cost you \$20-\$100 each time you call a repair person to your house," says DeJulio. "Knowing a few simple fix-it tricks can save you that phone call—and some money!"

FOR MORE HOME IMPROVEMENT TIPS, GO TO:
WWW.EASYDOESIT.TV



HERE ARE SOME OF BEVERLY'S TIPS:
CLEAR THE WAY: If your shower floor is slow or clogged, the shower head may be stopped up with mineral deposits. To clear them, fill a food storage bag with white vinegar that has been heated to warm, then attach it to the shower head with rubber bands. Soak for at least half an hour.

WATCH IT UP: If your screens have tiny holes, place a dot of clear nail polish over each one. For holes up to one inch, buy small screen patches that attach without tools. And if your screen has come loose from its frame, purchase an inexpensive easy-to-use splining tool, which will allow you to simply wedge it back in.

AT YOUR DISPOSAL: If your garbage disposal stops working, go under the sink and try the reset button. If that fails, go back under the sink and insert an

Allen wrench into the hole in the center of the bottom of the unit, and move the wrench back and forth to dislodge whatever is jamming the blades.

EASY CHAIRS: If your dining room chairs are stained (or just need updating), remove chair seats using a screwdriver to take out screws that attach the seat to the frame. Cut new fabric three inches bigger than the seat on each side, and pull fabric tautly over the seat. Working from the middle of each side, use a staple gun to secure fabric to underside of seat. Copy corner folds from the original cover and staple into place.

DOOR PRIZE: If your door is not closing properly, it may be loose on its hinges. First try tightening the hinge screws. If the wood is stripped, take the screws out and put white glue and toothpicks into the hole. Let dry and replace the screws.



Blast away in 3 seconds.



LIQUID-PLUMR® PRODUCTS AVAILABLE AT





55mph
Chain speed of
a 45-cubic-inch
gas-powered
chain saw at
full throttle.

EDITOR'S CHOICE
ECHO has the compact and
take apart cuts more jobs.
Harris Technology p. 101

TRICE DOCTOR: The light weight, compact size, and easy balance of this top handle ECHO make it easy to maneuver, which is why it's a favorite of professional arborists, who spend a lot of time up in trees.
ECHO CS-250T
On-sale for \$199.99,
\$60 off (street price)
\$399.99 echousa.com

What to Look For

Relique is the safety of today, which is why it pays to look small and light. "See, I know that's the key," says Dan Harris, landscape architect Roger Cook. "Smaller can be much easier to handle." He says that he and his crew use brush cutters, as cutters should look for these features:

A) THROTTLE INTERLOCK. Must be present for the chain to engage for the trigger to see the throttle.

B) VIBRATION REDUCERS. Located between the handle and the bar, these engine and the handle.

C) POWER HEAD. A two-stroke gas engine with a displacement between 33 and 45 cubic centimeters (7 to 10 cc) will offer a good compromise between adequate power and light weight. A head heavier than 12 pounds will be a good for most occasional users.

D) INERTIA-BASED CHAIN BRAKE. Automatically stops the chain if the bar hits bark or if you walk into the guard. A wide guard makes a better target.

E) GUIDE BAR. Longer is better, if there's a fine mesh chain for the power head, the bar will not power and may be unbalanced. A 12- to 16-inch bar is good for most jobs. 18- to 24-inch bars are good for most jobs.

F) CHAIN TENSIONING. A screw driver can keep the bar, an arrow light chain will wear it out. Tension is important, moving the bar which forces most workers to use. Saw with wrenchless adjustment mechanisms make it easy to keep chain tension just right.

G) CHAIN CATCHER. Captures a broken or dented chain before it flies off and hurts someone.

6 seconds
How long it takes
a sharp chain to
slice through a
foot-thick trunk.



EDITOR'S CHOICE

FOR MORE INFORMATION, VISIT WWW.HUSQVARNAINSTOCK.COM



What will it take for you to DRYLOK®?

Loss of money, stress, the trouble and trouble, discomforts it just the beginning of what basement water damage can cause. This basement dampness can also lead to mold and mildew problems. Stop water from entering completely with DRYLOK.

DRYLOK is specifically formulated to waterproof interior or exterior, above or below grade masonry surfaces. DRYLOK works by penetrating tiny pores in the masonry that expands and dries to form a tough waterproof barrier which is proven to hold back a wall of water 22 feet high.

So why take a chance. Solve your basement water problems and create new living space with DRYLOK Masonry Waterproofing.



Create beautiful living spaces with DRYLOK.



America's #1 Selling Brand
**OVER 50 YEARS OF
PROVEN
PERFORMANCE**

Call or visit for your free Waterproofing Made Easy Guide. Visit www.drylok.com or 1-800-852-8275

UGL

TOOLBOX



CORDED Suburban loggers appreciate the stop-and-go convenience of electric chain saws, which are lighter, quieter, simpler and easier to start and maintain than gas models. The chainsaw shown here is about 70 percent electric, though, so it's not for loggers. Milwaukee #220, \$249. Tool sold separately. \$279. milwaukee.com



CORDLESS This version, a 5-pound saw with 160 volts, can cut through small trees faster than a gas model. It's 160 volts, but it's not for loggers. Milwaukee #220, \$249. Tool sold separately. \$279. milwaukee.com



Body Armor

The vital majority of chain saw accidents involve the legs and feet. So before you fire up any saw, upgrade your safety gear with the following:

- Flare, head and/or neck protection
- Cut-resistant pants or chaps
- Steel-toe boots
- Chaps made with cut-resistant fibers



WILD THING Milwaukee's 160-volt cordless chainsaw is a great choice for occasional users. Poulsen #PACBRT, 160-volt, 1800-watt, 40-inch bar, \$229. milwaukee.com

Why it's here: To help you stay safe, these are the best tools for your safety. Milwaukee.com/safety

BOXES AREN'T FOR SQUARES



ARND BRONKHORST/REUTERS FOR THE THIS OLD HOUSE PROJECT

The This Old House crew is busy staying hip, giving new life to an old 1950 Contemporary and proving that modern never goes out of style.

Catch it on The This Old House® Hour exclusively on PBS



WHEN TO WATCH

visit thisoldhouse.com/toshchedule to find out when shows are on in your house.

THANK YOU TO OUR NATIONAL SPONSORS FOR ALL THEIR SUPPORT.



Instant Hold

All the performance you expect from LIQUID NAILS' adhesives in a unique formula that combines instant vertical holding power and a strong, durable bond. Projects have never been easier.

LIQUID NAILS
ADHESIVE

GRIPTM
Construction Adhesive

STRONG INSTANT GRAB

Low Odor
Water Clean-up
Durable
Bonds Concrete, Brick, Drywall, Lumber, Plywood

ULTRA QUIK!

Performance On Contact

©2004 H.B. Fuller. All rights reserved. www.lbhfuller.com

HOMEOWNER'S
HANDBOOK
WEEKEND
PROJECT SERIES

Installing Bifold Closet Doors

BY ALEXANDER BARNES
ILLUSTRATED BY KYLEN SMITH

IT SEEMS EVERYHOUSE BUILT SINCE the 1950s has doors with sliding doors. Space-saving, sure, but not the best-looking—and certainly not very revealing when you're trying to see (or reach) the patches in the middle of the closet where the doors overlap each other.

Bifold doors work a steady track, on the other hand, move effortlessly away from the center of the closet to give you a full picture of the contents inside. And because bifold doors in a wide array of profiles, they bring character to a plain system. Replacing those built-in core bifold's specialty with a pair of sexy, solid-belted ones isn't a huge deal, the whole assembly and installation will take you a mere Saturday afternoon. Then you'll be rewarded with a wide-angle view when it's time to pick out the day's dish.

The panel doors, made 1444 from Solid White 1500 for semi-2-door sets. Bifold door hardware, 11000 from Home Depot. Hardware about \$17. Each 4-1/2" x 6-1/2" bifold, from Harbor City Supply. \$13.50 each.

QUICK INSTRUCTIONS
FOR THIS PROJECT



TOOLS FOR THIS PROJECT



SQUARE



DRILL/DRIVER



SELF-CENTERING
bit for pulling
pilot holes for
bifold tracks



WACKER
bit for removing
track to fit
opening



PLUMB Bob
for aligning
bifold door and
bifold door



FLOORING
EXTENDER
for routing
into tight
space with
extension



WACKER
bit for cutting
bifold into
track

COST:
\$200 to \$750

TIME:
4 hours

DIFFICULTY:
A simple installation
that becomes a
difficulty if you have
bifold doors or
if the closet opening
isn't square.



Live yourself as
interior decorator.

Make it right.

For more information or to design
your project from home, visit
homedepot.com/colorolutions.

Add special effects
to your living room.

You can't find it anywhere else. Only The Home Depot has the largest paint color palette in America. Superior paints from Behr, Glidden, and Disney. And the revolutionary Color Solutions Center, which lets you coordinate the colors on your walls perfectly with the colors in your home. With bright ideas, brilliant colors, and the best brands, it's easy to make your project look beautiful and professionally done.

You can do it.
We can help.

© 2008 Home Depot. All rights reserved.

{ overview }

BIFOLD DOORS ARE MUCH LIKE ANY DOORS, only connected into pairs with hinges resting on a track. What makes them look good and work well are a solid, heavy construction and sturdy and carefully adjusted hardware.

The left of the doors is what keeps them from shuddering when you open them. So it's best to look for solid-core or solid-wood doors, which will feel more substantial than hollow-core doors. (Solid doors are also easier to trim if any part of your door opening is out of square.) Then, in order to handle the weight of these heavier doors, you'll need a track that includes a wheeled mechanism, which allows the doors to glide smoothly rather than shimmy along the track.

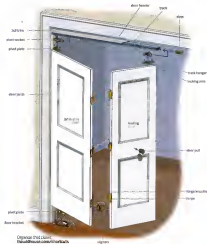
The most difficult—and sometimes most frustrating—part of the installation is attaching and adjusting all the hardware. The track, the pivots, the hinges all have to be assembled just so, and it's worth taking the time to double-check every measurement and position to be sure each piece is in the right place and facing the right way.



OLD YIM SKILL

First turn your doors 90°.

Workshop, p. 323



shopping list

1 | DOORS Two solid-core or solid-wood doors, as long as they can be assembled into bifold doors, as long as they're said to fit your needs.

When measuring the door opening, measure for a small gap around and between the doors. Many hardware kits specify how big this must be, but it's worth noting that the gap is not the same for all doors. A gap of 1/8 inch between each door is a good rule of thumb. (Look at the bottom, and about 1 1/2 inch at the top [which leaves room for the track].)

Mount the track on the wall, spacing of your doors subtract 1/2 inch, and double it to get the total track width. Measure vertically and subtract 2 1/2 inches to get the height.

2 | TRACK HARDWARE The track and all the corner with solid door sets can be found. We're going to let it do the heavy lifting, so we need a heavy-duty track that makes the door glide smoothly. The track comes in different sizes but we want to get the longest length we can find.

3 | DOOR PULLS Smaller cabinet handles will get on a larger door as well for "cabinet look" or any other look. 2 1/2 inches in length is a good rule of thumb.

4 | 1/2-1/4 INCH GRADE PLATE STOCK This is used to secure the door to the wall.

5 | 2 1/2-INCH TRIM SCREWS For securing the track to the wall.

{ step by step }

1

Mount the hinges

Finish or paint the door before you start to put the hardware on. It's a good idea to decide the order the door will go in the opening and which side of each will face front. Label them accordingly.

Take a pencil, take door and mark its outer edge. 12 inches from the bottom, 7 inches from the top and centered between the two of the doors is marked the bottom handle (hinge). Place the door on edge with the handle facing up. Take the lower half of the hinge and line up its bottom edge with the bottom mark, then slide the hinge to the door's back and fasten to the edge. Use a self-centering bit to drill pilot holes through the hinge holes. Screw on the hinge plate. Attach the top and middle hinges, aligning their upper edges with their marks.

Place the hinge (first) door on its edge, facing back, to face with the first door. Align the door's lower edge with the hinge (the hinge is the hinge). Screw the hinge plate to the hinge door. Repeat on the second pair of doors.



2



Attach the track hardware

Fasten the pivot plates (hinge) to the track and the door handle. The track is the side along the track to the top and bottom of each set of doors (1, 2, 3). The pivot plates go on the top and bottom of the door-side doors, and the bottom end on the top of the leading door.

Each set requires its hardware to be uniquely positioned so check the diagrams that come with yours for most measurements and placements. There will tell you, for example, not only how far a pivot plate should be from the door edges around it but also where its pin should be in relation to the door's edges. Adhering to the given dimensions ensures that the pivot goes in backward.

3

Install the track

Use a hardware to cut the track to length to fit the door opening. Make the hinge hardware into the track—the small steps at the corner then mount the track hangers with wheels and finally the pivot wheels on the outside.

Attach the track to the door handle with the screw provided (1, 2, 3). Position the track 3 inches from the edge of the door. This will give you enough room to slide the track with the wheel on the door side.

Don't tighten the hardware into the track. It will be easier to force the door later if the pivot is loose.





4

Position the floor bracket

Use the measurements supplied by the manufacturer to position the floor bracket next to the door jamb.

Hang a plumb line from the center of the track above the floor bracket to align the pin hole in the bracket level to back. This will ensure that the doors are plumb when installed. Outline the bracket in pencil to mark its exact location.

Screw the bracket in place, then remove the screws and set the bracket and screw aside.

Hang the doors

Align the doors to the track and tilt the jamb side to hook the pin at the top pivot plate into the pivot socket (PGH17). Make sure the pin is off the way in. Then push the lever on the side of the socket to lock in place.

Set the pin from the track hinge into the lock pin on the leading door. Test the door to lock into place.

With the doors closed, swing them forward enough to catch the floor bracket and the bottom pivot pin. Then swing the doors back into place and align the floor bracket with the pencil marks. Use a flexible bit or sander to screw down the bracket (QAK-RG47).

Hang the other set of doors. Close both sets and adjust them along the track to even up the reveal around them. Then, using the wrench provided with the hardware, tighten the pivot sockets on the ends of the track, making a full stop in the center.

Ask a helper to glue you a hand to lifting and holding the doors, which can be unstable.



5



6

Attach the door aligner

From inside the closet and with the doors closed, mount the door aligner between the two leading doors. It fits up from the floor. The aligner catches when the doors are closed, keeping the door from flush with each other.

From outside the closet, check the alignment. Adjust the track hardware as necessary to keep the reveal around the doors even.



7

Install the door pulls

If your doors are flat, measure 26 inches up from the floor on each leading door. Then mark the outside-to-side at that height.

If the door is paneled, find the center of the middle rail (this will look better). Hold a string taut diagonally from corner to corner on the rail, make a small line at the middle. Then switch to the other diagonal and cross the line. The 4 marks the rail's center.

Drill $\frac{1}{8}$ -inch holes at each mark and screw on door pulls (PGH17).

Cut a piece of 3x2 stock the width of the closet opening to fit in front of the track and hide it. Frame the trim and let it dry. Use a $\frac{1}{8}$ -inch bit to drill pilot holes through the underside of the trim into the header. Screw the trim to the header with 2 1/2-inch trim screws. Fill the screw holes. Trimmed the trim to match the siding.



buying guide

Like other interior doors, sliding closet doors come in a variety of styles so you can choose ones that complement the doors in the rest of the house. Here are a few of the most popular styles.



SHAKER
Smooth flat panels, complete with Craftsman and Modern hardware. Shaker fitted 200 in. by John Simpson Door Company, about \$450.



RAISED PANEL
Six panels create early American house styles. Colonial door from Jeld-Wen, about \$390.



ARCHED PANELS
A 30-in. is a panel profile with a full-width and Queen Anne-style oval doors. Crownline from Craftsman, about \$170.



LIGHTWEIGHT
These basic (left) doors look like lightweight, covered shutters— inexpensive. Left: Best (right) to the 2000 series. Plantation shutters from Jeld-Wen, about \$140.

} details make
the difference }

in the thick orchards of fruit, for when building a house is to create a home, a housewife's husband's mother is up to her neck out of sight, one that will make food last but will have a powerful appeal. That's just what housewives Graham and Patricia Epley-Jones were after when it came time to rebuild their home in Newport Beach, California, home. The house's low ebbings, faded drapery, and yards of heated, gleamed led the couple's architect, Carol Fick Fox, to recommend they start from scratch. And so the challenge was on. Design a charming, old-fashioned-looking house for a family of five on a thirty-4-by-100-foot lot. According to midwestern New England-style homes, the couple started looking at books on Nantucket and Cape Cod, flipping the features they loved. Dropping their wish list was one amazing arched window, hand-painted exterior rooms, and brickies as body crafted in the finish. Working with designer Lynn Price, who helped the couple adapt elements of the old homes they admired, the housewives spent some years adding details and perfecting their new, sprawling-but-tidy million-dollar house on the old and following pattern. Today, Patricia admits where risks coincided them on their husband's "old" home. "I was, 'This' she says, 'is how we styled it.'"



The roller blind has a stainless steel or aluminum slat, while the curtain does another. It contains the width of the blind. Fixed over the only the curtain window is easier to operate and provides more ventilation than a double hung window.

windows and doors

The size, shape, and style of these openings can set the tone for a home



Designing windows and doors for a house on a narrow lot with neighbors just 8 feet away on both sides is no easy task—especially when the homeowners want plenty of natural light. Building the house as a U-shape is used a courtyard helped create privacy. And placing windows up high in dormers or on walls where ceilings are vaulted let in light but not prying eyes. But the couple's big request was doors and doors with character. So, inspired by the second stop pottery store designed for the houses, they decided to create an arch motif throughout. "I took the pottery's full round arch and used it for the kitchen and dining room windows, the cabinet doors, the front door, and the folding French doors," says designer Lynn Pines.

HOME BUILDERS KNOW HOW

▶ While vaulted light is traditional, they also create a subtle sense of enclosure—unlike single-pane and picture windows that invite the outdoors in. Feel like the neighbors are on top of you? Vaulted lights abstract the view to the outside, somewhat, making interior spaces feel cozier and more intimate.

▶ To build a new home with an old look, work with an architect or designer who's willing to research and re-create the moldings used in period houses. "There's more going on in hundreds of pre-1900 homes than just a brick mold outside the windows," says Pines, who likes to add lath above windows and create aprons underneath sills.

▶ Repeat features like arched windows and French doors throughout, just don't overdo it. juxtaposing them against more traditional double-hung and paneled doors reinforces their specialness.



▶ **ABOVE** When the homeowners saw an arched cottage style pottery store that the designer had put in another house, they wanted it for their own. TOP LEFT The shape inspired a design that had an arched doorway leading into a room even the doorway which has an arched top. BOTTOM LEFT Pottery store for the kitchen and dining room with allowing light to filter in.

When the light is just doing, however.

For the couple, the replacement window is especially the garage. Double-hung French doors with arched lights wrap that back on the table and to help enhance the light of the room. The light is not just a matter of style, but also of light.



wain- scoting

Protecting a wall from chair rail to baseboard, this old-fashioned design solution works in hard-to-reach rooms.



ABOVE is the second-floor great room, wainscoted walls help bring down the soaring ceilings and ceiling to screen in-lane walls, working up the space. The outdoor patio is the main right up to the bar in home office area, which has been designed to look like an outdoor bar. The bar has a granite bar, a granite bar, and multiple stools for personal electric use. **RIGHT** is the 10 by 12-foot master bath. The wainscoting with a baseboard is a traditional look, but the wainscoting is a modern twist. The wainscoting is a modern twist on a traditional look.

How to install wainscoting: thisoldhouse.com/diy/builtins

It wasn't just the traditional look of wainscoting with that the Easley Jones found attractive, but also the easy-to-clean surface they provide in a house where kids routinely slip through an ill-used screen. Designer Lynn Price used different types of wainscoting throughout the house to add interest, then painted them the same antique white to unify the railwork. Installed 64-inch baseboard from the kitchen and family room and continues up the stairs and into the second-floor great room, more formal 50-inch baseboard forms panels in the hallway and bedrooms in the dining room and foyer. Even the master bath has baseboard-style wainscoting around the soaking tub. "Wainscoting is the kitchen, master suite, and kids' bedrooms where the effect

HOME-BUILDING KNOW-HOW

► The length of wainscoting may vary from 30 to 54 inches. Then again, it was determined by the height of a chair rail used to protect walls from damage when chair backs brushed against them. Then 34 inches was standard height, one rail commonly used today. ► Consider using different wainscoting throughout a home, says designer Lynn Price. "While baseboard might work well in a kitchen or bedroom, raised or flat panels will look better in a dining room, especially when run halfway up the wall or even up to eye level." ► Different floors and walls can be the biggest challenge when installing wainscoting, so measure carefully before you begin. You might need to cut your boards to different lengths, working down from the highest point to the chair rail, adding shims as needed to fill in wavy walls and level uneven floors.

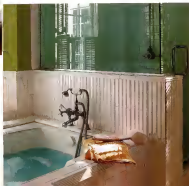


FIGURE 17

Left: master suite. Right: master bath. The wainscoting in the master suite and master bath is a modern twist on a traditional look. The wainscoting is a modern twist on a traditional look.



built-ins

The ultra-modern custom home organizing system stores clothes, shoes, and technology close by—and out of sight.

Not all families want to look at life's necessities 24/7, whether it's the refrigerator in the kitchen or the TV in the living room. Thank goodness for built-ins. The Easley Jones designed as much storage as they could into the 3,736-square-foot house. Every room, from the kitchen to the powder room, contains carefully designed shelves, bookcases, and more. The homeowners wanted their wainscoting to contrast with the white walls and the children's room, they opted for old-fashioned built-in wainscoting. "Not only do they hold more than a dozen," says Patricia, "but they add to the character of the house."



ABOVE: "We loved having a garage but not a carport. The door to the garage opened right into the family room, so instead of trying to hide it, the homeowners decided to make it a focal point of the space," says the designer. The shelving unit was custom-built and painted in a dark, high-gloss black, creating a dramatic look for books and knickknacks.



HOME-BUILDING KNOW-HOW

- ▶ To get built-in cabinets, wardrobes, and desk units a favorite look, don't run the cabinets all the way up to the ceiling, top them with crown molding that matches what's elsewhere in the home and give the pieces feet or legs, suggests designer Lynn Price.
- ▶ Cleverly designed built-ins are a way to make dead space in a house. Lazy Susan-style swing-out shelves provide under-cabinet access to hard-to-reach late-cabinet corners. Storage drawers can fit under dormers or staircases, and bookshelves can line hallways or wide stairways, and surround entire doorways.
- ▶ While you'll want to figure built-ins into your house design when constructing, don't fret if your renovation budget can't accommodate them. Architects actually suggest living in a new space first to better determine traffic flow and what your storage needs are.

CLUCKING PROMPTLY Built-in under-cabinet lighting was used to create a dining room feel, with built-in bookshelves that resemble shelves of drawers with white, hung above them, and a "secretary" for built-in storage in between. The kitchen's appliances were mostly custom, the wooden case around the built-in under-cabinet lighting, while a door to the built-in under-cabinet lighting and the TV/DVD player.



21

BY JAMES GLAVE
PHOTOGRAPH BY KAREN ROOPER

Ways to Save on Your Remodel

BUSTING THE BUDGET IS EVERYONE'S BIGGEST FEAR WHEN IT COMES TO RENOVATION.

And with good reason: Even if you follow the essential advice we've been dishing out for years—build in 20 percent cushion to cover the nasty surprises, get contractor references and check them, bargain the world while you're at it!—from your vocabulary, it's hard not to end up shelling out more than you want to, even if you start with a penicillin check for a million bucks.

But why scold back a painter or knee that Viking range? No, what you need to do is get your dream at a price you can afford. And not by cheating out, either. With some strategic thinking about design, materials, and timing, you can cut costs without cutting corners. On the following pages, we'll show you 21 ways, from the big (knock down the house and start over) to something as small as choosing a wall sconce over a recessed light. But another universal truth about renovations is that every little thing adds up. So save a little here, save a little there, and pretty soon you're talking about real money.



21 Ways to Save on Your Remodel

1 Increase efficiency, not size, if you can.

[illegible]

2 Bring in natural light without

Adding windows. Before cutting a big hole in the side of your house and rearranging the framing, consider alternatives—often expensive—steps of capturing light. To brighten up a windowless bath, a hallway or entrance, you can install a light tube, which sits between roof rafters and funnels sunlight down into the living space. Get the old a double-pane insulated window: \$1,500. Get the right tube: \$300.

update.com

3 Hit the recycling center to donate.

Center, or a participant can reap big savings with recycled or lightly used fixtures and building

Students. Habitat for Humanity sponsors about 450 Habitat houses nationwide, which offer savings of up to half off home center prices. One caveat: Many contractors won't work with college students, so homeowners-sought aid materials in general. Because they're trusted to assume the liability of something goes wrong. That said, if you do your own work, you can find anything from power-down to exotic skylights to participate in the mission. (Find a Habitat near you, visit habitat.org.)

Price of a 4-by-8 foot insulated subflooring home center \$600
Price of Habitat \$300
Savings \$300

4 Donate your trash.

Best: you big in my modeling job, make the local Habitat for Humanity chapter to remove make make features for later reuse. "About 25 percent of a house is reusable," says J. Patrick Habitat is a home program manager in Austin, Texas. "It needs a lot of money, or a cheap pick job and take the debris. It's like the junk, and you're" You are a great at the end, collect a lot of the credit for the donation and help a good cause. Visit Habitat's website.

Best Way to Save \$400s Find an affiliate next you
 Good to make a suite of business
 between 450 to 475

Good for you! Nothing, plus you get a few diamonds.

E Do your own demo.

Knocking down may not be as easy as it's marketed. Out you go with these dollars by doing some of the do-it-yourself—so long as you proceed with care. "The homeowner wants to demo a deck, well I can say they can handle that," says Michael Wiles, owner of Wiles Design in Virginia. "But when it comes to other spaces I would dissuade them from doing it unless they know how to handle the job." A weekend warrior might unwittingly take out a load-bearing

pressurized plumbing. For tips on how to do this right, see our

October 2005 feature: "Welcome You, Control! You Have to Destroy.")
Cost to demolish a 200-square-foot deck yourself: \$400 (Disrupter tool and parking permit)
Cost to hire pros: \$1,000
SAVED 100%

6 Consider long-term costs, not

It's not just short-term gains. If your advisor calls for disaster going forward, you can see

more in the long run by pumping up rates for the prepared and preselected variety. It costs another 20 to 30 cents per foot, but "you'll wind up paying for half as many solid poles down the road," says the

Edinckamp, owner of Edinckamp, says a design build teaming firm at Newline, Massachusetts (The Jeanmarc Factory Inc.) was appointed to develop under controlled conditions — no-to-a tie break can. "I used performance traps, as my power about five years ago and the only law in the field is the personal and/or legal" really washed off," Edinckamp says. "The project looks as if it is good for another few years, really." Cost at installation using for a 32 by 42-foot window, plus two points (plus \$5,000). Cost for prefabricated traps and one unit of panel at installation: \$3,750. (SAND) \$1,250

7 Tap your contractor's

SOURCE'S. When it comes to things like flooring, only your subcontractor if he has odds and ends stock left over from other jobs. While removing a 2nd floor wood floor and break-out in New Jersey some years back, contractor Bill Buddi needed wood flooring. He took a few phone calls and came up with hundreds of square feet of (hardwood) in various lengths and widths that otherwise would have gone into the trash can after job work. Just be planning the work

thickness, then sanding and refinishing it, he would have lost almost \$6,000 in materials costs. Cost of new flooring: \$21,300
Cost to use someone else's flooring: \$10,500
SAVED: \$10,800

8 Limit recessed
light fixtures.

more recessed lights you'll find in the store it's going to cost," says Tom Soto. The Old House's general contractor is adamant to the fixtures, there's the labor to put all the holes and make them properly. And, as for ceiling-mounted light canisters deliver more wastage, which means you may be able to get away with fewer fixtures. Cost to install six canisters: \$200. Cost to install one surface-mounted fixture of equal wattage: \$100. **JOYCE: \$400**

9 Consult an architect, interior designer or landscape architect.

on the scale of your project, you might not need a full-on architectural commission at all. For example, before most meetings, multiple job interviews, and several informal site visits, to the tune of about 10 percent of a project's overall budget, you might be able to tap an architect's design savvy by having him produce a one-time design consultation. For example, for a \$400 fee he, Baker Design architect Ryan Harris will meet with a homeowner, discuss the problem,

part of course work. One-time design competitions. For example, for a 2003 challenge, *Business Owners*

architect Kevin Harris will meet with a homeowner, measure the problem and sketch out a few solid options. No fee. As a sample, we're opening up a partition wall removing a door. The homeowner has designed a 2nd-story, two-bay truss to make it a clerking service, which will change about \$1 to \$1.50 a square foot to make out for additional structure drawings. Architect's fee to design a 200-square-foot home office \$1,000. Fee for design consultation only anywhere \$100. (JAMES) (C) 2002

11 Make sure that equity count.

Unless you've got loads of time (and expertise) to spend on your project, the best way to add talent equitably is up front, by handing your own devotion—or at the very least by doing some of the legwork yourself. "If you want to save money, it's just a matter of getting help early," says Ron Sims. "You can't outsize your own

Sometimes it takes very odd old-line thinking to triumph over a tight budget. When the time came to construct their new home in southern California, they kept running up against one problem: the lack of lumber-cumbersome wood blocks. The job would stop up soon if they waited until they'd have to build another place for eight months.

So the couple and their two sons, ages 7 and 3, decided—on her as the driving force. They bought a 1985 Airstream travel trailer for \$4,000 and parked it outside the front door, where it now serves as a portable kitchen, dining room, occasional bedroom, and all-around handy home out.

"The whole spirit of buying the tender was that we would be able to drive away from the house and get out from under the job site," says Loon, who once lived on a sailboat and is comfortable in those quarters. "But we haven't done that. We have fallen in love with the Airstream."—JE

How We Saved

LISA & DAVID GILMOUR
LIVED IN A TRAILER IN THEIR OWNWAY
WHAT IT COST \$400K | SAVED \$1.1M



Stone Face

Rock veneer adds depth and texture to walls, foundations, and chimneys

By MAY ALEXANDER
Photography by RICHIE LILLYKAY

THIS PAGE: Up close, the modern stone veneer jacket just flatters standard cinder block. **OPPOSITE:** Stone looks great, but it's clear that the stone veneer she chose has nothin' but a show for the TV show project house built and designed in a modern style.



BENT OVER A LARGE BUCKET OF THINSET MORTAR, Roger Cook reaches in with a trowel, scoops, trowels and scoops up a glob of the tan/gray mix. In front of him looms a broad concrete foundation wall almost entirely covered in rows upon rows of neatly arranged stone slabs, while behind him, piled on a table, are several of the rock pieces, looking like the well-used flat mirror cases. Grabbing a slab off the table, he buttons its smooth back like a piece of paper. Then he leans in the wall and carefully slips the slab into place along the 20-foot-long horizontal line. It has taken the Two Old House land-scape contractor nearly three days, but now by now, he's managed to raise a cold concrete foundation face as the TV show's project house into a rock sculpture. Using lightweight pieces of steel string, he has applied a veneer to the slab that makes the Modern-style house look as if it has grown out of a



as old stone wall. As Rogers explains, applying stone veneer conceals some problems. "We're sandblasting the best results," he says. "It's all about paying attention to the details."

There have been hails from stone for thousands of years, but today the look of stone construction is much easier to achieve because it can be created with veneer—rock cut into thin, smooth-backed pieces that are applied to concrete board or poured concrete. There's no boring, squared because the pieces are relatively lightweight, ranging from 5 to 15 pounds per square foot. And the flat rear surface of the veneer simplifies mounting, though you still need to fit stones carefully in relation to others—that's where masonry comes in. There, unlike with rock-and-mortar jobs, there's no cure time, so you can keep right on working. Best of all, you don't have to exhaust yourself wrestling with boulders. "You can set veneer for hours and still function at the end of the day," says Rogers.

PREPWORK THE SURFACE

Rogers's concrete is clean concrete wall (poured as textured concrete must be) and he's roughed up with a power chipping hammer



ABOVE: JCM Masonry continues Roger Cook's specialty finesse on a series of natural stone veneer to continue his running pattern on the foundation wall. He leaves his tools and materials close at hand. **COURTESY FROM LEFT:** Specialty cut pieces fit outside corners, a pointing trowel adds finish touch, and masonry mortar for the backing the back of the stone, and a large bag of dry-lime plaster to keep the surface random and varied.



first, but stone veneer can also go directly over cement board. "Would the edge work as a substrate as well, but it's fine because covered with a minimum 1/2-inch, and the natural look is attached with roofing nails," and finally a thin scratch coat of mortar that has to dry overnight. Because Rogers is applying a fairly heavy veneer, he starts by bolting a railing into the bottom of the concrete wall with cap nuts as anchors to corner's back ledge—a shelf to provide support and a level of starting line for the stone. To make the job go faster, he lays out dozens of pieces on a long table pulled up right next to him. "You don't want to be holding around as hours while you work," he says.

Organizing the stone is one time-saving trick, but the rest of the stone plays a large part

in making installation. At the project house, the 450 million-year-old quartzite "Virginia ledge-stone"—actually quarried in Bulgaria—gives the appearance of dry-stacked slabs. (Aside from the foundation wall, the veneer also covers the two chimneys, the front retaining wall, and the back wall of the exterior driveway.) Jason Ratched of Missouri Stone Veneer Inc. (national, the Wisconsin company has supplied the stone, the first-time installers have an exact one with a square and random pattern. For the Virginia ledge-stone because it's too challenging to fit. "Virginia ledge has a full-size on-site boulder in granite," he says. "It's a good idea to have someone to work with you for a day or two, so you can learn."

APPLYING THE STONE

Using an old hand trowel, Rogers works alone. Starting with mortar corners, he lays stones along the brick ledge, working toward corners so that mortar from each side otherwise being



LEFT: Every few rows, Roger coats each stone with a random selection of mortar. He leaves his tools and materials close at hand. **COURTESY FROM LEFT:** Specialty cut pieces fit outside corners, a pointing trowel adds finish touch, and masonry mortar for the backing the back of the stone, and a large bag of dry-lime plaster to keep the surface random and varied.



against the concrete wall. Outside corners require special right-angle masonry pieces that wrap around the edge and give the illusion of a whole stone. Because this job called for a dry-stack look—the visible mortar between stones—Rogers can use an acrylic-formulated thinned mortar of brick mortar. He backs a 1/2-inch thick layer of the mix on the back of a stone. Also pointing along the joint against the wall, he presses firmly at and down to seat it.

For the most natural look, Rogers is careful to apply natural stone as a kind of running bond pattern, at which stones on one row open the mortar between stones on the row below. He also alternates pieces of different sizes. "It helps to think of the veneer as full stone," he says. "How would you lay it all out to get the best interlocking structure and design?" After applying several rows (about 6 to 9 inches of vertical span), Rogers pauses to re-

view his guidelines, using a mallet and a 6-foot level. "It's also good to tap, read back, and take a look. Move ahead slowly, and it'll end up looking like the ocean," he says, making waves with his hands.

Classical is important on any masonry job, because mortar that dries on the stone there can be tough to remove. Rogers keeps a bucket of clean water next to him and dips into it frequently to wipe off mortar and keep his hands clean. Whenever he needs to make a cut for fit, he uses a 4-inch diamond blade on a hand-held grinder, though a table-mounted tile saw would also suffice to shape the pieces. "I prefer the small grinder because you can set it right on your bench," he says.

After letting the mortar set for 24 hours, Rogers gently hammers down the wall, using inside brick rollers to set the wall. "That's the only maintenance it should ever need," he says. ■

Veneer Options

A true fieldstone wall has strength, charm, and costs only \$2 to \$8 per square foot. But the price doesn't take into account the thick footings needed to support it—or the slow installation, requiring constant chiseling and shaping. One skilled mason with an assistant can lay only 20 to 25 square feet per day.

That's why natural stone veneer—cut stone that has been carefully split and sawn into flat sheets—is a growing segment of the billion-dollar stone veneer industry. The price per square foot can be double that of full-size rock—\$8 to \$24—but it goes up twice as fast, meaning real savings can be had.

More popular "manufactured" stone veneer—a mix of Portland cement, lightweight pumice, and mineral oxides for color and texture—is even cheaper and easy to install. Cost is the sum of the weight and color pigments, the best manufactured stone is hard to tell from the real thing—until you pick it up and notice how light it is. Pieces are loosely cut and finished with a bushel or wide-mouthed trowel. Prices are generally in the range of \$5 to \$7 per square foot, untreated. The only drawback: With just a 30- to 50-year warranty, nothing you build with it will be quite set in stone.



Natural Stone
1 Cobblestone
2 Virginia Ledge-stone
3 Olympia Ashlar
4 Manufactured Stone
Manufactured Stone
5 Manufactured Stone
6 Manufactured Stone
7 Manufactured Stone
8 Manufactured Stone
9 Manufactured Stone
10 Manufactured Stone
11 Manufactured Stone
12 Manufactured Stone
13 Manufactured Stone
14 Manufactured Stone
15 Manufactured Stone
16 Manufactured Stone
17 Manufactured Stone
18 Manufactured Stone
19 Manufactured Stone
20 Manufactured Stone
21 Manufactured Stone
22 Manufactured Stone
23 Manufactured Stone
24 Manufactured Stone
25 Manufactured Stone
26 Manufactured Stone
27 Manufactured Stone
28 Manufactured Stone
29 Manufactured Stone
30 Manufactured Stone
31 Manufactured Stone
32 Manufactured Stone
33 Manufactured Stone
34 Manufactured Stone
35 Manufactured Stone
36 Manufactured Stone
37 Manufactured Stone
38 Manufactured Stone
39 Manufactured Stone
40 Manufactured Stone
41 Manufactured Stone
42 Manufactured Stone
43 Manufactured Stone
44 Manufactured Stone
45 Manufactured Stone
46 Manufactured Stone
47 Manufactured Stone
48 Manufactured Stone
49 Manufactured Stone
50 Manufactured Stone
51 Manufactured Stone
52 Manufactured Stone
53 Manufactured Stone
54 Manufactured Stone
55 Manufactured Stone
56 Manufactured Stone
57 Manufactured Stone
58 Manufactured Stone
59 Manufactured Stone
60 Manufactured Stone
61 Manufactured Stone
62 Manufactured Stone
63 Manufactured Stone
64 Manufactured Stone
65 Manufactured Stone
66 Manufactured Stone
67 Manufactured Stone
68 Manufactured Stone
69 Manufactured Stone
70 Manufactured Stone
71 Manufactured Stone
72 Manufactured Stone
73 Manufactured Stone
74 Manufactured Stone
75 Manufactured Stone
76 Manufactured Stone
77 Manufactured Stone
78 Manufactured Stone
79 Manufactured Stone
80 Manufactured Stone
81 Manufactured Stone
82 Manufactured Stone
83 Manufactured Stone
84 Manufactured Stone
85 Manufactured Stone
86 Manufactured Stone
87 Manufactured Stone
88 Manufactured Stone
89 Manufactured Stone
90 Manufactured Stone
91 Manufactured Stone
92 Manufactured Stone
93 Manufactured Stone
94 Manufactured Stone
95 Manufactured Stone
96 Manufactured Stone
97 Manufactured Stone
98 Manufactured Stone
99 Manufactured Stone
100 Manufactured Stone

mining the past



How two 19th-century coal sheds, a treasure trove of salvaged materials, and one preservation-minded builder inspired a 21st-century mountain retreat

BY SALLIE BRADY
PHOTOGRAPHY BY TIM HUSKEY

COME FUNKY, slice-of-prodigious piece of new property that would induce strains head-scratching at any auction. Two rained-out, bullet-hole-riddled coal sheds that the local preservation board says must stay. Dozens of lower-end houses angling to break from the road, a nearby creek, and an alley, as well as the demolition of every window and door.

Sound like the makings of a dream-house-building project?

It was just that for one dogged couple, who devoted three years to transforming a long-passed-over parcel into a historically sensitive barnstead.

Elizabeth LeCinq Curran and her husband, Joe, knew their perfect building lot wasn't easy to come by in Crested Butte, Colorado. What was once considered the poor coal-hauling cousin to the area's former silver-mining towns of Aspen and Telluride had remained rich in Western history and architectural artifacts—and the preservation folks wanted to keep it that way. Which, for prospective house builders, means there's no rearing when it's left of those 19th-century tin-roofed, wood-plank-sided coal sheds that dot potential lots.

For that wasn't a negative list for the Carrans. The native Colorado architect and the former loggia-like instructor appreciated Crested Butte's mining past. "I know a lot of people would have looked at this property and just seen eyesores," says Lisa. "But I stood in the middle of the lot, closed my eyes, and imagined a house coming up around me." Once the Carrans

ABOVE LEFT AND TOP RIGHT: The Carrans' preservation-minded quest for the past of disappearing sheds couldn't be less dreamy—or even closer. So they became a boy's backroom. **OPPOSITE:** work in progress. **TOP LEFT:** A developer removed three tin roofs, leveled their foundations, and poured concrete foundations. Now the Carrans want to restore the old sheds, and the original tin was patched and reused.



OPPOSITE The open-plan kitchen is selling through, even with the rustic Oregon workbench and built-in armoire. **THIS PAGE, CLOCKWISE FROM TOP:** A farmhouse sink by Stone is backed by a wall covering that was distressed and filled with actual barnwood. Spacing does not appear to be used in the kitchen but is in the living room. The floor is 100-year-old maple. A large piece of the house's original wood is used in the master suite. The house is built by the historic Carlisle House of Quality. Photos by Steven R. Brown



"To build the staircase, our builder, Mike Fahrlander, went up into the Rockies on his horse, out into the aspen groves. He cut down stands of dead saplings and hauled them back to use for the balusters and railings."

—LIZ CLARK, HOMEOWNER



Where to find sustainable building materials: houzz.com/sustainable

"I wanted the house flooded with light," says Liz. "But the strong board doesn't allow big natural windows. So we went for lots and lots of the small, arched, double-hung windows you would have found here years ago." French doors and skylights, both treated open by generations, were another struggle. "I just kept going back to them," says Liz, explaining her eventual success.

Built by Fahrlander, the house is a really old design—some of the most I've seen in 30 years here," he says. "Using stone, he and his team based their design on a French chateau to tell me it and say I was from the rustic region and had a good design left behind. Then they dug out the two lot of various windows and doors that had accumulated inside over the years and rebuilt the sheds from the inside out, making whatever materials they could.

For the version, the Carsons had a vision of a frontier house constructed with decorative and ruggedly beautiful materials. So they again consulted Fahrlander, who specializes in working with salvaged goods, then spent nights working the basement for old flooring, fixtures, and doors. "Most dealers will say no," says Liz of working off the Web. "You just need to be focused on what you want."

The house's 100-year-old exterior paint floor came from Fahrlander's quarters on a Virginia apple orchard, its 100-year-old doors were recovered from Mexican haciendas, and its numerous mixing bowls, from an Oregon workshop. Luckily for the homeowners, Fahrlander knew what to expect when dealing with reclaimed building materials. "As trees grow a logarithmic response for Mike," says Liz.

So strong was the pull of the Rocky Mountain highway that the Carsons put finished their latest project, unpacking their moving boxes and then forming their former vacation home into their year-round residence, now where, like homeowners before them, they bed down each night in a two-story house. ■



Define a home without saying a word. Look any way you need to when it comes to your home's style. It says its details and highlights and declares in the look of its trim. And so here distinguishes your home better than AZEK Trimboards. Whatever the style, AZEK gives new meaning to craftsmanship and durability. For more information, ask your contractor, call 877 AZEK AZEK or visit www.azek.com.

AZEK
TRIMBOARDS

Once you look, it's all you'll see.

© 2004 AZEK Corp. All rights reserved.

WORKSHOP

TOO MANY THINGS YOU'VE GOT TO ANSWER

102 Ask This Old House

104 Skill Building

106 Shopping/Pricing Sheet

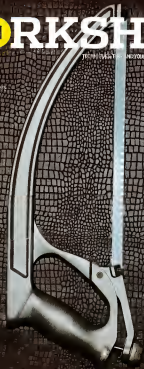
108 Pruning for More Flowers

110 Clearing Your Mind

112 Adjust a Blind Door

114 Norm's Notebook

116 Directory



A hand saw is often overlooked, but it's a handy tool for many jobs. The saw's blade is made of a high-speed steel alloy, making it strong and durable. The handle is made of wood, which is comfortable to grip. The saw is easy to use and can be used for many different types of cutting. It's a versatile tool that every homeowner should have in their toolbox.

PHOTOGRAPH BY
FLORIAN KREYER

Ask This Old House

NEED AN EXPERT? WE'VE GOT FIVE, READY TO ANSWER YOUR HOME QUESTIONS



LEFT: A segmental retaining wall, like the one Roger Cook is checking, uses blocks made of self-curing concrete. This type of wall needs no mortar, so it can be assembled even in freezing weather.

Whichever type of wall you choose, make sure water has a way to drain from the side against the wall. That's why I always install filter fabric, a drainage pipe, and clear drainage pipes behind my retaining walls.

Too-Short Stairs

In our four-year-old house, there is a well along one side of the basement stairs that has stairs that don't meet the ceiling. The builder said this isn't a problem because it's not a load-bearing wall. What do you think?

YOU ASKED: PATRICK BROWN, ROCKFORD, ILL.

Tom Silva replies: Maybe he thought you'd appreciate some extra headroom and squander it in the floor above. Seriously, there's no reason for clunky, gap-filled framing. Stairs should sit snugly against their treads, and joists and plates should be tight against the wall/ceiling or joists, whether or not it's a structural necessity.

Take the wall down and build it right. Then make this guy off the list of contractors you'll call when you need any other work done on your house.

Ailing Glazing to a Door

Our six-panel entry doors are made of solid wood. We'd like to add some natural light to the foyer without replacing the doors. Could I just remove two of the panels and replace them with glass?

YOU ASKED: JENNIFER, CHANDLER, ARIZ.

Steve Mesner replies: This could be an easy job if the panels are held in place with applied muntins. Then you could simply pry off the muntins, take the panel out, and add the glass. Most of the time, however, the wood panels fit into grooves cut into the door's stile and rails. If that's how your door is made, you'll have to cut off one side of the groove. I'd do that with a router, a hand plane or a flat sand bar, and a template to guide the finished cut.

erment accuracy. Use a chisel to square up the corners where the router can't reach.

To limit condensation, the new glazing should be installed glass held in place by new trim molding. This trim should be glued and nailed to the door. There are other things to think about installing glazing in a door, but I think you get the idea. It will be a lot of work. Perhaps you'd be better off replacing the doors with new ones that already have the glazing you want.

Closing a Gap in Vinyl Siding

There's a 1/4-inch vertical gap in our vinyl siding. That I see every time I pull into the garage. It doesn't look very good, and I'm worried about the condition of the wood behind it. What should I do to fix it?

YOU ASKED: HEYON, MONTGOMERY, ALA.

Tom Silva replies: A gap that big is definitely not right. Vinyl siding manufacturers usually recommend a 1-inch overlap to allow the vinyl to expand and contract, but the installers who worked on your house must have cut one of the siding lengths too short.

Call your contractor to fix this problem. And a new piece—one that's long enough to provide proper overlap—will probably look different from the weathered pieces around

it. So before you replace it, try sliding the panels together first.

To do that, you'll need a pry tool, available at hardware stores and home centers, to nudge the overlapping panel above the gap. Once it's free, you'll see the perfect sealing flange that holds the siding under house. Take the nails out of the ends of the pieces on each side of the gap and slide the panels together until they overlap slightly, even if it's less than an inch. Check to make sure you haven't opened another gap at the panel's opposite ends. Then drive a nail through the right side of the flange hole at the end of the left-hand piece, and into the left side of the hole in the right-hand piece. Don't drive the nailhead right against the flange; you want the siding to be able to move a bit. Now slide your pry tool and look the upper piece of siding back on.

I wouldn't worry too much about wood deterioration. Your siding should have a layer of building paper underneath it to protect the sheathing. If you're exposed plywood or OSB, that's a different story. You may want to remove that siding, and all the coating siding will have to come off.

Artist's Studio Ventilation

I'm an artist who paints in oils, which means I also use turpentine and other chemicals. My studio is a small 36 sq ft room, and in the winter the fumes are so bad that I can't paint as much as I like. Is there a way to get rid of that fumes without losing a lot of heat?

YOU ASKED: CHARLIE, MONROE, MISSISSIPPI

Michael Sweeney replies: Well, you could swap in a separator with filter cartridges for turpentine vapors. It's portable, cheap, and very effective, if you don't need looking like a mess out from a house's eaves.

In case that's not quite what you had in mind, there's another solution: a heat-recovery ventilator (HRV), sometimes called an air-to-air heat exchanger. This clever device pulls in fresh air from outside the house through one duct and exhausts stale air from inside through a separate duct. The two airflows cross paths, but don't mix, so a heat exchanger. The exchange captures 60 to 80

percent of the heat out of the outgoing air and transfers it to the air coming in. You might want to consider connecting the exhaust duct of your HRV to a fume hood, the kind used in chemistry labs. If you position it right over your work, it should make your HRV even more efficient at removing those fumes right at the source. It will cost more than a gap seal, but it's a lot more comfortable.

Looking for Old Concrete Roof Tiles

My house is a 57-year-old Victorian with a concrete-tile roof. It was installed in 1929 to replace the original cedar shakes and has weathered hurricanes like a champ. How can I find matching replacement for some of the missing and damaged tiles?

YOU ASKED: PATRICIA HATFIELD, BEAUMONT, TEX.

Kevia O'Connor replies: A roof more than 75 years old? No wonder you want to keep it. To find an answer for you, I called Roger Olaus, tile and shingle specialist at The Roofing Store in Ft. Worth. He says that you should look on the back of one of your tiles to see if there's a tile manufacturer's name or logo on it. If so, then you can check the list of U.S. roof-tile manufacturers on the manufacturer's website, tileworld.org. If there's no name on the tile, or the company isn't listed, perhaps you'll find similar tile problems by going to each company's website. If not, you may be able to find a company that will custom make the tiles you need.

You can also check with companies like American Clay, which will subgrade roofing tiles, or search the Web for overseas suppliers, many of which ship into the country were inspired by European designs. Importing tiles might seem expensive, but it's probably well cost less than having new tiles custom made or installing a new roof. ■

To send a question to Ask This Old House, go to www.thisoldhouse.com/ask with the

Ask This Old House
This Old House magazine
2000 Avenue of the Americas, 21st floor
New York, NY 10036

Include a complete address and daytime phone number. Please use a return address for the mailing label and may be used for other correspondence. We reserve the right to edit and use your story in any form without notice.



ROGER COOK



PATRICK BROWN



PATRICK BROWN



STEVE MESNER



STEVE MESNER

PHOTO: JEFFREY M. HARRIS; PHOTO: JEFFREY M. HARRIS; PHOTO: JEFFREY M. HARRIS; PHOTO: JEFFREY M. HARRIS; PHOTO: JEFFREY M. HARRIS

SHARE YOUR KNOWLEDGE WITH THESE TIPS FOR DOING ANYTHING BETTER AROUND THE HOUSE.

Avail Shears

Sharpening Shears

The key to efficient pruning is a razor-sharp blade.

RELATED STORY: 8 WAYS TO MAKE TIME FOR PRUNING

Pruners are the most useful tool in your arsenal for your plants. So don't sabotage that good deed by using dull pruning shears as happens when someone tossed a pair of old, rusty ones into your toolbox. Not to mention all the extra effort each cut takes. That's why IGH landscape contractor Roger Cook recommends sharpening pruning shears before every use. "It only takes a minute," he says. "And it saves a lot of effort over your results."

There are two types of pruning shears or pruners: bypass and side-by-side (also called anvil). Bypass shears can be sharpened with an 8- to 10-inch sharpening stone. When sharpening always move stones in the same direction (left to right or right to left).

Spread the handles completely to open the blades. Hold the handle and support the jaws from closing unexpectedly. The blade's widest point should be on the jaw.

Use the sharpening stone on the bevel nearest the pivot. Move the stone back up along the blade toward the end of the blade. Repeat five or six times. Make sure the stone follows the blade's existing bevel angle each time.

Flip the shears over. For anvil shears repeat the process on the other side of the blade. For bypass types, rest the stone flat against the blade and make one or two straight strokes from the pivot end to the bevel's tip. Then move your hands for blades that are fairly widely spaced. Roger says to clamp them in vice and restore the edge with a few strokes of a medium-sized file, following the existing bevel angle. Then finish up the edge with a sharpening stone, an advice

—ANDREW BARNARD



Roger Cook says to use the widest of the blade branches on this side of the blade. The first of a three-part training regimen that will rejuvenate the growth and increase the number of flowers.

Rejuvenate a Flowering Shrub

Three years of pruning puts back on a flowering shrub.

RELATED STORY: 8 WAYS TO MAKE TIME FOR PRUNING

A shrub that's congested or has stopped flowering may need a renovation pruning—a series of three cuts over a few years—to stimulate new growth. You will see the results immediately, but you'll end up with a recharged plant, one with thicker foliage, stronger branches, and more flowers. For the first of pruning, Roger Cook follows the "rule of thirds." Cut back one-third of the oldest branches the first year, one-third the second year, and the remaining third at the third year. "Shrubs still have an older stem, so you'll have the oldest flowers," Roger says. You'll need three cuts, one for each year, but that's not a bad thing. It's a good idea to have a pair of hands and a saw for any big job.

1. Remove dead wood and any branches rubbing against each other.
2. Select the long branches to be removed. They should be evenly distributed along the main stem so you don't end up with a plant that looks like a broom.
3. Cut close to the heavily older. This smaller part of the branch has grown over the wound and will die off in a year or so.
4. Repeat the first two steps every year. By the fourth year, the plant should be filled out nicely and will need only minor pruning to fine tune its shape. —ANDREW BARNARD



Clearing Toilet Clogs

Two techniques for using a stopper-up toilet.

RELATED STORY: 8 WAYS TO MAKE TIME FOR PRUNING

When a toilet clogs, the first tool to reach for is a drain-clogged plunger (COP), which is specifically designed to fit tightly against the curving surfaces inside a toilet bowl.

1. Push the plunger cup into the opening and seal it tightly against the bottom of the bowl.

2. Pull the handle vigorously on the upstroke until the water level drops. The objective is to pull out the clog against it. Or, you could make matters worse. Repeat about 10 times.

3. Push. Push the handle down on the downstroke until the water level rises. Repeat about 10 times.

IF THE PLUNGER FAILS.

If you've tried the plunger and it hasn't worked, you can try a snake. With a hand snake, you are using a spring coil on the other end of a handle to break up the clog.

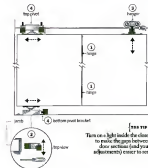
1. Place the end of the snake into the drain. Push it down until it hits the clog. Then the handle clockwise as you gently lead the cable through the trap. When you feel resistance, the snake has reached the clog. Try to break it and pull it back by turning the handle clockwise and pulling back on the handle.

2. If the clog can be broken apart by turning it apart by pushing on the snake while turning the coil quickly one way then the other. Once your fingers and feet are used to the snake, the first step is to remove the toilet and snake it again.

If it still doesn't work, the next step is to remove the toilet and snake it again. If you can't get it to work, you may need to call a plumber to do it for you. —ANDREW BARNARD



TIPS
When using a plunger, keep your hands around the base of the toilet to keep up the pressure.



Adjusting Bifold Doors

Each sagging and sticking with a few hardware basics.

RELATED STORY: 8 WAYS TO MAKE TIME FOR PRUNING

A bifold door that's sagging or sticking is a common problem. It's usually the result of a few simple adjustments.

1. Tighten the hinges. If the door is sagging, it's usually the result of loose hinges. Tighten the screws on the hinges.

2. Adjust the door in and out. When the door is closed, the door should be level with the frame. If it's not, adjust the door in and out.

3. Adjust the door up and down. Use a screwdriver to adjust the door up and down.

4. Adjust the door side to side. The door should be level with the frame. If it's not, adjust the door side to side.

5. Adjust the door top to bottom. The door should be level with the frame. If it's not, adjust the door top to bottom.

6. Adjust the door bottom to top. The door should be level with the frame. If it's not, adjust the door bottom to top.

7. Adjust the door left to right. The door should be level with the frame. If it's not, adjust the door left to right.

8. Adjust the door right to left. The door should be level with the frame. If it's not, adjust the door right to left.

9. Adjust the door top to bottom. The door should be level with the frame. If it's not, adjust the door top to bottom.

10. Adjust the door bottom to top. The door should be level with the frame. If it's not, adjust the door bottom to top.

YOU COULD WIN \$50,000 and a 2006 GMC Sierra® TO TRANSFORM YOUR GARAGE



February 17 - March 21, 2006

Enter at DIYnetwork.com for your chance to win!

SPONSORED BY



GMC

WE ARE PROFESSIONAL GRADE™

SPONSORED BY



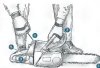
NO PURCHASE NECESSARY TO ENTER OR WIN A PRIZE. The total retail value of all prizes is \$50,000 (cash) and selected popular car(s) at DIY Garage Giveaway Giveaway—March 21, 2006. Winner: \$50,000 cash and a 2006 GMC Sierra. Sweepstakes ends at 11:59 p.m. EDT on 3/21/06 and ends at 1:00 p.m. EDT on 3/21/06. Must be a legal US resident to enter age 18 or older. Void where prohibited and where prohibited. Sponsor: Scupper Networks, Inc. d/b/a DIY Network.

WORKSHOP

Norm's Notebook

MASTER CARPENTER NORM ABRAHAM'S TECHNIQUES FOR USING CHAIN SAWS. FEATURED IN TOOLBOX, PAGE 57

CHAIN SAW



Safe Starting

Forget whatever starts you've seen where people sit upon chainsaws while holding it in one hand. This last needs to be only under your control, especially at the start.

1. Place the saw on the ground and make sure there is nothing touching the bar.
2. Engage the chain brake on the engine as well as the motor completely.
3. Put your right foot halfway through the rear handle and hold the front handle firmly with your left hand.
4. Pull the starter-vent handle with your right hand until the engine starts.
5. Push in the choke and let the throttle open as the engine starts. Engage the chain brake only when you're ready to begin sawing.



TIP

Never cut in the "danger zone," the upper half of the barhead, the saw will likely kick back at you.



Bucking Logs

When I'm cutting a felled log or a large tree into smaller chunks—a process known as bucking—it's usually about 4 to 6 feet long and 12 to 18 inches in diameter. It's easier to get the heavier portion off the ground and on top of another log. Then I can make a single cut from log to log through the timberland and without worrying about the chain being pinched or landing in the dirt. If the log is too big to cut through in one cut, I'll make a partial cut. Then roll it away from me and continue the cut. Be sure to step back at the end of every cut. You don't want that log to end up on your head.



Chain Check

When using a chainsaw, I always check the chain tension. If it's too tight, it tears out the bar and sprocket and can even snap. If it's too loose, it can skip off the guide bar.

First, I put a glove on. I can pull the chain around the guide bar. It should track smoothly with little effort. (If it doesn't, the saw's guide bar may be bent, the sprocket is too loose or may need oil, or the chain may be too tight.) Next, I pull the chain away from the bar about midway along its length. The chain should sit slightly—about 1/8 inch—on the sprocket. If it's too tight, it won't sit on the sprocket. If it's too loose, it won't sit on the sprocket.

To adjust the chain tension, an Allen key is used to turn the tensioning nut at the base of the bar. Make the bar sit at 1/8 inch. Then tighten the nut. Once the tension is right, then it's okay to start.

Plumbing fittings (a kitchen and master bathroom) Hargrett Bros. and sons of Brookfield, Wis. Serves Wis. CA 905-427-5207
hargrettbros.com **Marble Island counter-top** Classic Marble Fabricator, CA 714-708-7277
Shower fittings Letting Brooks assemble through Lundquist Color-Mix, CA 714-545-8281

FROM THE TOP TO JOB SITE

Stone Paved (pp 80-83)

Natural Stone Veneers International, Portland, Ore. 877-923-2800
nsvi.com **Cultured Stone** Owens Corning Fibers, OH 800-295-1373
culturedstone.com

MINING THE PAST (pp 84-92)

Architect Colson Development, Concord/Bufile CO 970-349-1366
colsondevelopment.com **Build it like you found it** Mountain Home Construction, Crested Butte, CO 970-250-5581
interiordesigner.com **Long Diner** Crested Butte CO 970-349-5945
Recycled wood siding, metal roof and entry slate tile Mountain Home Construction

Windows Marvin Windows and Doors, Winnead MN 800-527-7525
marvin.com **Floors** Corliss Wide Plank Floors, Skeddy, HI 808-596-9803
wideplankfloors.com **Floor installer** Carl Carlses Timberline Hardwood Floors, Crested Butte CO 970-641-5203
Artique Woodwork

doors Salsa Trading Company Services, CA 707-589-1730
salsatrading.com **Lighting** Waterwood Electric, Crested Butte CO 970-349-7551
finches celebrity and Garden Kaskadi **sustainable counter-top** Thurston Melcher and Beth, Crested Butte CO 970-349-5273
Shaw's

Fireplace screen sale Bels LLC, Crested Butte, CA 800-777-9262
rthhome.com **Passel** Two three hot water with a design and volume condition **Weathered Copper** Ann Sachs, Portland, OR 800-278-8853
annsaich.com **Kitchen** Interiorsmith LLC, Chesham, MA 978-252-3333
Collette Hardwoods

lighting and paint Mountain Colors, Crested Butte CO 970-349-9200
Kings, Viking Range Corp. Greenwood, HI 800-645-5645
vikingrange.com **Master bathroom concrete** **new sink and faucet** WaterBridge Collection, Sonoma, Calif. Stone and Sonoma Forge, Petaluma, CA 877-283-2400
sonomaforge.com, sonomaforge.com

Granite/Top LeVelle Stone, Arizona Tile Tempe, AZ 480-890-3995
aztile.com

WORKSHOP: Opening photo (p 30)

12 inch High Tension (see Profile Hardware Model # 2D-003, Slating Metal Slat, New Britain, CT slatinghardware.com

Ask The Old House (pp 152-155)

"Using Retaining Wall" Segmental retaining wall systems, Matt Concrete Block Co., Woodford, VA 703-804-3590
mattconcreteblock.com **"Artistic Studio Ventilation"** Heat recovery ventilators LifeWatch, Melick-Stearns Inc., London, Ontario, Canada 519-452-8501
mlsinc.com **Also** **Monitor** Monitors, "Closing a Gap in Vinyl Siding", Zip Tool, Watson Sub-Duplex 3871 curved siding reinforcement, Watsonproducts, Inc., Ayer, MA 800-338-3530
mattconcreteblock.com **"Looking for Old"**

Concrete Roof Tiles Tile Roofing Institute, Chicago, IL 545-650-0356
tiroofing.org **The Tackles** Inc., Louisville, MO 202-363-0203
tacklesinc.com

Still Building (pp 104-105)

"Repurpose a Flowering Shrub" Landscape contractor Roger Cook, 4-6 ft tree and Landscape, Burlington, MA 781-222-6804
"Adjusting Window Doors" 1/2 inch rock hardware Metal #10073 Johnson Hardware L.E. Johnson Products, Inc., Elkhart, IN 800-437-5854
johnsonhardware.com

SAVE TIME AND MONEY (p 124)

Holmes Landmarks Foundation of Indiana Holmes Landmarks, IN 219-326-0813
holmeslandmarks.org **Special Radio to...** Historic Properties, Richmond, VA 800-907-0332
historicproperties.com



You wouldn't seal plastic to say I love you.

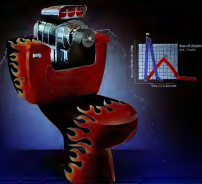
It's also a problem. It's not my pet. It's not my pet.

There's nothing wrong with being plastic. Especially when it comes to plumbing your pipes with flushmate. flushmate is the only way to seal the most common pipe in your home. flushmate is the only way to seal the most common pipe in your home. flushmate is the only way to seal the most common pipe in your home.

For more information, visit www.flushmate.com or call 1-800-321-0211.



SUPERCHARGED



Maximum performance under pressure.

New
FLUSHMATE®
Works



1 Water enters the bowl to create a siphon and compresses



2 The charged bowl is ready to flush



3 When flushed the SUPERCHARGED pressure pushes water through the bowl of water from below. The side of a traditional gravity system

FLUSHMATE™ not only takes what old systems have known for decades "Supercharging" from the compressed air. Available in both 1.6 and 1.8 gallon-per-flush options, SUPERCHARGED FLUSHMATE™ equips toilets with the same water as other toilets and they deliver this to a large water surface and against flushing action.

With water savings and no double flushing, FLUSHMATE™ offers you the competitive edge because there is no better flushing technology available today. Plus, FLUSHMATE™ equips FLUSHMATE™ toilets.

Look for a toilet with FLUSHMATE™ toilet. Call 800-873-1843 or visit www.flushmate.com to find a local distributor near you. And where FLUSHMATE™ equips FLUSHMATE™ toilets.

FLUSHMATE™ products are made in the USA.



FLUSHMATE™
Available at select Home Centers
2010 Western Drive, New Canaan, CT 06840
866-873-1843
www.flushmate.com

©2010 IAPMO Quality Systems Company



Custom. Period.

Furniture that fits.
True custom cabinetry.
The perfect choice for your
period style home.

CROWNPOINT
CABINETRY

Period styling.
Fabricated in the finest quality.

800-999-4994 • www.crownpoint.com



UNICO FITS™ YOUR STYLE

A unique team of professionally experienced installers makes UNICO® not just a concept, but a reality. UNICO® is a concept, not a product. It's the way you think about your home. It's the way you think about your style. It's the way you think about your home. It's the way you think about your style. It's the way you think about your home. It's the way you think about your style.

By the way, UNICO® is a concept, not a product. It's the way you think about your home. It's the way you think about your style. It's the way you think about your home. It's the way you think about your style.

CALL 800-527-1338

Visit www.unico.com for more information.

The Unico System
Master Control Network for Gardening



WIDE PLANK FLOORING



The original source
of wide plank floors
since 1966. Family, trust,
quality. A wide variety
of design options
to fit any style of home
and any budget. Call for
your free portfolio:

800-595-9663

Carlisle
Wide Plank Floors
1 Oak Street, Carlisle, Pennsylvania

www.wideplankflooring.com

Depend shade systems for residential & commercial outdoor living



ShadeTree
Versatile Canopies

Turn your hot deck or patio into a cool "outdoor room!"

- Unlimited sizes and styles. ShadeTree® Canopies come small and shaped, in L, U, and Z shapes. 20' (length) x 10' (width) (standard).
- Many models with a wide choice of designer outdoor fabrics, including Sunbrella® (guaranteed not to fade).
- Canopies adapt to your structure or use for standalone or vinyl supports. Canopies are available in 10' and 20' wide and 10' and 20' high.
- Patented wind protection • Easy financing • Daily handling or weekly rental available

Visit www.shadetreecanopies.com for more information.

Call TOLL FREE 1-888-31-5HADE or 610-442-2222

Or a FREE color catalog online via

www.shadetreecanopies.com (201)



ShadeTree Canopies
1001 East Main Street, Suite 100, Carlisle, PA 17015

The Toughest Glue On Planet Earth.



A safe
formula of
polyurethane
glue, plus, most
important, it's
100% waterproof
and 100% guaranteed.
1-800-345-1453 • www.gorilla.com

The Toughest Tape On Planet Earth.

Extra Thick.
Extra Stick.

New Gorilla Tape sticks to anything.
Ordinary tapes & tapes can't. It's the
tough, thick, extra-stick and strong.



1-800-345-1453 • www.gorilla.com

SUNPORCH
SUNROOM / SCREENROOM

COMPLETE KIT
READY-TO-ASSEMBLE
ON YOUR DECK OR PATIO



• Built-in & weathered
• Complete frame suitable to
withstand 10 mph winds
• Factory direct pricing delivered
to your door
• Stained & painted alone
• Mounts onto the deck & metal base

PER CATALOG, SIZES & PRICES

• www.sunporch.com
Phone Code 1002

• 1-800-221-2759
Extension 100
When PC 3344-APR 100

SUNPORCH
by Sunline

When the admiring throngs
BECOME TOO MUCH,
our shutters close for privacy.



Honestly artistic, custom handcrafted cedar shutters
from Timberlane® With our hand-forged period hardware,
they'll make your house shine. Call us for a free catalog.

800.719.0767 EXT. 507 • TIMBERLANE.COM/SHUT

**QUALITY
RELIABILITY
SERVICE**

Your trusted source for the
highest quality stainless steel
and non-ferrous fastener
products available for today's
outdoor construction demands -
**WHEN AND WHERE
YOU NEED THEM**



SWAN SECURE
OVERLASTING FASTENERS
800.961.3101
WWW.SWANSECURE.COM
CALL FOR NEW CATALOG

Timeless Design



Sunrise Specialty proudly presents the 1941-42 Ford back on 4000 Federal Hwy, one of
more than 25 vintage style homes available from Sunrise. All our homes are created of cast
iron for the ultimate in beauty, durability and great protection. To see our entire line of
vintage buildings visit our website or call for a full color catalog. Sunrise products may
be purchased through local showrooms nationwide.

SUNRISE SPECIALTY

Toll 800-444-4280 • www.sunrise-specialty.com

WE **WALPACA** **ELEVATORS**
Elevators for the World



RESIDENTIAL
ELEVATORS

1-800-311-4771 • www.walpaca.com

**Like the original, solid brass was
the least of its ingredients.**



HH
DESIGNS BY JENNIFER HORTON

Over 2,700 years of history and engineering expertise
has created the most beautiful and functional brass
products in the world. Call today for more information.

Metalsmiths
from
\$425

Features:
• Custom Construction
• 100% Stainless Steel
• 100% Galvanized Steel
• 100% Aluminum
• 100% Copper
• 100% Brass

Galvanized
from
\$1575

Features:
• 100% Galvanized Steel
• 100% Aluminum
• 100% Copper
• 100% Brass

Working Steel
from
\$3300

Features:
• Custom Construction
• 100% Stainless Steel
• 100% Galvanized Steel
• 100% Aluminum
• 100% Copper
• 100% Brass

The best selection, quality, and prices!

Since 1911, The Iron Shop has enjoyed a reputation for outstanding design and fabrication
of spiral iron. Today, we utilize computer-aided technology throughout our production
process, successfully making sure that we are manufacturing with the highest quality.
Offering the largest inventory, highest quality, and lowest prices in spiral iron—we make sure
you get the right spiral to meet your needs. And our spirals are still made with pride in the U.S.A.

Call for the **FREE** sales Catalog & Price List:
1-800-523-7427 Ask for Ext. 100
or visit our Web Site at www.TheIronShop.com/100

Also Visit & Download: Call 1-800-523-7427 Ext. 100 or visit our Web Site at www.TheIronShop.com/100
Baltimore, Maryland • Chicago, IL • Dallas, TX • Denver, CO • Detroit, MI • Houston, TX • Kansas City, MO • Las Vegas, NV • Los Angeles, CA • Miami, FL • Minneapolis, MN • New York, NY • Phoenix, AZ • Portland, OR • San Francisco, CA • Seattle, WA • Tampa, FL • Wichita, KS

THE IRON SHOP®
The Leading Manufacturer of Spiral Iron®



FREE PRODUCT INFORMATION

APPLIANCES

302. ALL FREE APPLIANCE LITERATURE

1. GE PROFILE What happens when style meets innovation? You get the perfect blend of contemporary beauty and timeless technology in our home appliances. Appliances like few are only by GE Profile.

FINANCIAL SERVICES

303. ALL FREE FINANCIAL SERVICES LITERATURE

2. FORD F-150 The new F-150 has arrived and from a home that's never as close to revolutionary success... it's the toughest F-150 ever.

3. GMC SAVANA Finding the right tool for the job has just gotten easier with the help of the new GMC Savana. For prototype with extra space.

4. GMC Sierra Home improves need Professional Grade support GMC Sierra one that and more. Whether you're putting up painting or adding a new suite of rooms, GMC Sierra will make the task easier. Group the job right starts with having the right tools.

5. HEBBARD TEAM The Hebbard Home Team. For more information please visit our website.

LANDSCAPING

305. ALL FREE LANDSCAPING PRODUCTS LITERATURE

6. AZEK TIMBERDECK The #1 brand of this durable and innovative decking is true. No matter how elaborate the design, once you look, it's all you see.

7. KEY NETWORK Key Network is an online network that provides industry professionals, manufacturers and product tips to home and building enthusiasts.

8. GEORGIA-PACIFIC Georgia-Pacific Plyform™ laminated plywood products perform better than untreated board (OSB) because of its greater durability, superior stiffness, lighter weight and versatile characteristics. Visit our website for more information.

9. JAMES HARDIE James Hardie® the leading siding manufacturer in the country, offers the beauty and durability of natural wood without the maintenance problems. For more information visit our website.

10. LIQUID NAILS For over 42 years, LIQUID NAILS has provided powerful adhesives permanently flexible caulk and sealants. GOSD NAILS offers the right products for your next project.

11. SCHLAGE Schlage Access™ Collection is the finest line of American door hardware, providing a lifetime of strength and decorating possibilities.

FINANCIAL SERVICES

304. ALL FREE FINANCIAL SERVICES LITERATURE

12. BEYMAX Outstanding Agents. Outstanding Results. Nobody in the world sells more real estate than BeyMax.

13. STATE FARM No one understands your business and financial needs like your neighborhood State Farm Agent. We live where you live.

FLOOR

307. ALL FREE FLOOR LITERATURE

ARMSTRONG Armstrong floor products, which include linoleum, Armstrong™ tile, vinyl and rubber, offer the best of both worlds: beautiful, durable, easy-to-clean and low-maintenance.

14. LAMBER LIQUIDATORS Lumber Liquidators is the leading retailer of quality hardwood flooring at the lowest prices. They offer a variety of brands including Birlwood®. Over 100 locations nationwide.

15. POMO MAINTENANCE Maintenance Guide: Keep your home in the best of shape. POMO Maintenance is the only maintenance company that offers a variety of services.

16. TYLEE Tylee's design and styling is the answer to what you can do with your home. Tylee's design and styling is the answer to what you can do with your home.

KITCHEN

307. ALL FREE KITCHEN LITERATURE

17. THE HOME DEPOT The Home Depot is more than a store. It's where you'll find the know-how to get your home improvement projects done right.

LANDSCAPING

305. ALL FREE LANDSCAPING PRODUCTS LITERATURE

18. JOHN DEERE The John Deere Workforce Commercial and Consumer Equipment Division manufactures and distributes a full line of lawn care products for residential and commercial applications.

LIGHTING

309. ALL FREE LIGHTING LITERATURE

19. LIFESON ELECTRONICS Lifeson Electronics is the world's leading manufacturer of electronic lighting and lighting accessories.

PAINT/STAIN

310. ALL FREE PAINT/STAIN LITERATURE

20. RUST-OLEUM Rust-Oleum® New Generation Professional Wood Stains provide the beauty of your wood. Use the same that's been the paintbrush wood care leader for almost five decades.

21. USG Protect your home with Drylock Masonry Waterproofing. Guaranteed to stop water - above or below grade.

PAINT/STAIN/PAINT/STAIN

311. ALL FREE PAINT/STAIN/PAINT/STAIN LITERATURE

22. KODAK Kodak's new and better ideas... make a complete set of Kodak product catalogs cover all your needs: cameras, lenses, film, accessories, and more. Kodak's new and better ideas... make a complete set of Kodak product catalogs cover all your needs: cameras, lenses, film, accessories, and more.

SPECIALTY ITEMS & SERVICES

312. ALL FREE SPECIALTY ITEMS & SERVICES LITERATURE

23. SEARS PARTS AND REPAIR SERVICE Sears Parts and Repair Service has over 47 in-line parts for appliances, electronics, heating and cooling systems and more.

PHONE: 800-424-0055 / FAX: 888-647-6035

WEB: WWW.HOMEOWNERSHELPLINE.COM / MAIL: FILL OUT POSTAGE PAID CARD

TOOLS & EQUIPMENT

315. ALL FREE TOOLS & EQUIPMENT LITERATURE

24. SEARS CRAFTSMAN TOOLS Craftsman Tools are available at Sears and Sears Hardware stores. Craftsman has the right tool for every project.

WINDOWS, DOORS, ETC.

316. ALL FREE WINDOWS, DOORS, ETC. LITERATURE

25. AMERISH® WINDOWS & DOORS Meet the "Long Live The View™" Also look for Amerish® Windows. The most secure, elegant and smart.

26. HAWKIN WINDOWS AND DOORS Hawkain Windows and Doors offers premium wood and steel window and door for new construction and remodeling. Made for "You".

VENTILATION

317. AMERICAN AIDS VENTILATION

Manufacturer of Quality Ventilation Products

AMERICAN INTERNATIONAL TOOL INC., INC.

Dist. Free Shipping before and Out

318. ARCHITECTURAL PRODUCTS BY GUTWATER

First Second in Building Products Sourced from Canada

319. ATLANTIS BAIL

Stainless Steel Deck Railings

320. BIGFOOT SYSTEMS

Concrete Construction Ties Fastening Force

321. BILCO

Blue Steelman Products

322. ETIM USA

Eliminate ice dams and leaks

CROWNPOINT CANNERY

Handcrafted in the Forest Quality

323. EASY CLOSETS

Easy Closets Come get custom closets direct

324. SEFT

SEFT hidden lighting systems

325. SHOWER POOLS

Shower Pools

326. ENTRITE

Entrite (Insulated) House Numbers

327. FOLLIOWITH

The Best Buy Money Can Buy

328. GOSKILL GUN

Goskill Wood, Stone, Metal & More

329. HOUSE OF AMISH® HARDWARE

"True to the Original Design"

330. HYDRO-SEAL

Seal up to 100% on leak roofs

331. ICHN SHOP, INC.

Specialized Stone

332. M-ROSE

Insulating Anterior-Locking To Ceiling

333. MJ-WALL

Reinforced Foundations

334. OXYGEN AIR SYSTEMS

Virtually Airless Best Selling

335. RAINHANDLER

Rainwater Harvesting Systems

336. RESEARCH PRODUCTS/BIANCONI

For more information visit our website

337. SALTER INDUSTRIES

Spill Stop Kits

338. SHUTTER BLINDS

Authentic period wooden blinds and shutters

339. SPOONCH STRUCTURE, INC.

Concrete Structure Inc.

340. SUPERIOR CLAY

Brick & Clay Products

341. SWAN SIGLES

Swan Sigles

342. TAMPUR-PLATE

Plasticware plates, bowls, and more

343. TIM CHUNG CO.

Insulating Anterior-Locking To Ceiling

344. UNICO

UNICO for Historic Homes

345. UNITED COUNTRY

Free Real Estate Catalogs

346. WALFRICA ELEVATOR

Residential Elevators, Stairlifts & Commercial Dumbbells

347. ZEPHRAIL

Dust Control Systems



Designed in 1 Hour.

Installed in 1 Day.

Saved over \$950.

Enviied by neighbors



Designing a beautiful custom closet is easier than you think. Visit EasyClosets.com and see our simple design tools to create your own system. We'll do a complete red-evaluation for you. You'll receive a cost plan together after we've built your home. Yours will start in the plans. And you'll be amazed how easy the design tool.


www.easyclosets.com 800-468-4146


Custom Sized Cedar Shutters
& Hardware

Hand Built for Beauty & Endurance!



VixenHill.com
800-423-2766

FLOODMASTER, INC.

Water Feed Air Conditioner
Alarm/Stat-Off System
Condensing Unit Outside



Automatically controls alarm and shuts down air conditioner until alarm resets in the condensing drip pan. (Replaces 100+ much more!)

Electric repair 100 or 230 volts AC. Plug-In transformer with 30 volts AC output. Condenser cooled. Safety switch (GFI) with 30 amps, capacity.

Also available for working machine. 800-334-2766 Fax 800-493-2768



Cinder Whit & Company

Wood Turnings for Porches & Stairways

• Work on Custom Bridges • Ladders • Ropes • Poles • Quality Services

• Porch Posts • Balusters • Ropes • Spigots • Ropes • Ropes • Ropes

• Ladders • Ropes • Ropes • Ropes • Ropes • Ropes • Ropes

3-800-227-0804 Fax 781-402-4204

6-Week Lead Time www.cinderwhit.com

124 Elmwood Street, Suite 100, Woburn, MA 01801

We Can Solve Your Paint Removal Problems

"Dust Free" Paint Stripping and Sanding Tools

The PaintShaver® will strip 1-5 coats of paint in 10-15 minutes. No sanding, no dust, no mess. It's the only tool that can strip paint from any surface in 15 seconds. No sanding, no dust, no mess. It's the only tool that can strip paint from any surface in 15 seconds.



PAINTSHAVERS.COM

800-468-4146 Fax 800-468-4146

Simply Heat..



You won't believe the comfort!

Ideally for new construction and remodeling, the Zurn Simply Heat Electric Floor Warming System radiates gentle warmth through a network of low-profile cables pre-installed into mats. The mats are placed in the floor before the tiles, simplifying the installation. Simply Heat may be installed directly over plywood, concrete or finished sub-floors. Operating at a regular household voltage, Simply Heat control units draw less than one amp per sq. ft. when mats are installed with the specially designed Simply Heat thermostat.



CONTACT A ZURN AGENT OR VISIT OUR WEBSITE
FOR INFORMATION. 800-334-2766
FAX: 800-493-2768

40000+ Decorative Building Products

Lowest Prices...
Widest Selection...
All From One Source



Interior/Exterior Architectural Hardware
& Millwork

Period & Contemporary Hardware

Brass, Bronze & Polished Hardware

Columns & Capital Hardware

Knobs & Pulls

Wall Carvings

Handcarved Sculpture

Lighting

Stained Glass

Furniture & Cabinet Components

Stamped Lead & Polished Glass Windows

And So Much More

Please Call 1-800-775-4400 For Our FREE Master Catalog

Architectural Products by Outwater, LLC

Tel: 1-800-775-4400 Fax: 800-633-4400

New Jersey • Arizona • Canada

www.outwater.com

INCINOLET® electric incinerating toasters

PROBLEM SOLVED!

Need a toilet conveniently located?

Horse, cabin, boat or dock - INCINOLET is your best solution!

Simple to install, maintain. Only electricity needed. 120 or 240 volts.

ULTRA CLEAN: waste reduced to sterile ash, as little as a cupful weekly. Dump in garbage.

TOP QUALITY: stainless steel, platinum color control, quality construction for a lifetime of satisfaction.



1-800-527-5551
www.incinolet.com

REGARD PRODUCTS/Manufacturing • 2600 Andover • Duxbury, MA 01929



Albany Woodworks



Superior Craftsmanship

Handcrafted woodwork
in a variety of styles and finishes

Handcrafted woodwork
in a variety of styles and finishes

Call today for a quote
1-800-551-1282
www.albanywoodworks.com
Albany, NY 12206

save this old house

PRICE \$11
 LOCATED LANDSCAPES, INDIANA
 CONTACT HISTORIC LANDSCAPES
 BUREAU OF INDIANA, 111-101-0000

IF IT'S TRUE THAT A DEADLINE is the ultimate inspiration, then anyone to be inspired This Hoover-style example of off-did-on-meets-Greek Revival architecture has just a month to go before it finds someone who's willing to swing it all its foundation. It requires elevation to a new level of and before a not-so-hospitable hospital demolition it to make way for a brand new assisted living facility.

Quintin's is a well-kept stone four-story house that has been empty for three years, but remains in remarkably good condition, with merrill its decorative details intact, meeting fully at jagged woodwork, cherry battenwork and original six-pane windows. Four stone fireplace mantels also adorn the place, plus a woodward in the kitchen. The 3,000 square foot house has four bedrooms, bath and a spacious dining room, and is a rare find that just may be a well-kept secret in the city.

As of press time, the Historic Landmarks Foundation is still in discussions with the city to level a suitable plot of land on which to move the house. Once purchased, the property will be transferred to the new owner with covenants pertaining to its preservation. Estimates for moving the house are in the \$30,000 range.

Through the foundation's work the future of the house stands in Linneburg, as at least in Dearborn County it is not repaired. Linneburg, Bug's home, is all of wood on the last of the 19th century, growing from deep Ohio River bottom on individual (if at all) large or large. Sengren's delivery to use now failed in part by two natural causes. Despite all this, it has retained much of its original character thanks to its architectural legacy—some of the state's oldest buildings still there—and a newly improved idea. Since 1991, by using one of Linneburg's oldest homes, you will experience the city's grip on its most important asset: its history. We have built up through the real estate in April.

—BIRTH PAINLESS



ABOVE: The white bread peach (probably a later replacement for the smaller original one) is topped with a decorated ceramic. **LEFT:** The front view, which is unusually thin (heights and widths that straddle original measures). **BELON LEFT:** The house has plenty of fine Greek/Renaissance-style woodwork, the three-carved cherry balustrade. **BELON RIGHT:** One of the many other views from the garden.

© 1998 by The McGraw-Hill Companies, Inc. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without prior written permission from The McGraw-Hill Companies, Inc.



It will change the way you view screen doors.

With an OOL-retractable screen your screen door problems just disappeared. The screen easily slides in and out of a housing so it's there when you need it but out of sight - and out of the way - when you don't. Not all come to see how easy it is to install the screen. Available in a do-it-yourself kit or installed for you. OOL...Building Value Into Building Products for 60 years.



They were the old, 19th-century bridge.



RETRACTABLE SCREEN

1.

1-800-4-A-Oldsmobile (1-800-426-7827) or visit us online at www.older.com for system limitations and details.
 *Safety belts must be worn. ©2000 Oldsmobile. Oldsmobile and Oldsmobile emblem are registered trademarks of Oldsmobile Corp.
 GMC logo is a registered trademark of General Motors Corporation.



OnStar®

1-800-782-771 or visit www.rockwell.com for system limitations and details.

1-800-4-A-STAR or visit www.4astar.com for system limitations and details.
 *All rights reserved. Other than the 4astar emblem are registered trademarks of 4astar Corp.
 †All rights reserved. Torque Sensor, 4astar and 4astar logo are registered trademarks of General Motors Corporation.
 ©2004 GM Corp. All rights reserved.