

This Old House

DECEMBER 2004

25
ANNIVERSARY

[IDEA FILE]

FRONT DOOR FACELIFT

12

Ways to
Really Make
an Entrance

TRADE SECRETS:
Paint, Paper,
Floor & Tile
Like a Pro

HOW TO:
Get Great-
Tasting Water

**INSTANT
EXPERTISE:**
Choose,
Use & Install
Wainscoting

New Meets Old

How a modern
architect updated his
very own old house

THISOLDHOUSE.COM AOL KEYWORD: THE OLD HOUSE

+ **A BETTER BATHROOM:** 4 smart plans
A BRIGHTER KITCHEN: One couple
takes their cabinets and countertops
from dark to light

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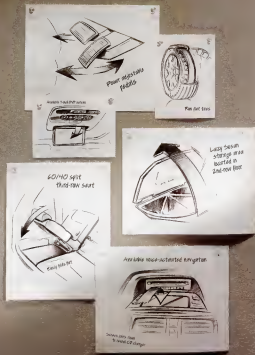
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For giving rooms instant personality—and protecting surfaces with style—nothing beats veneering.
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Tropical tree-like plants can be as important to the look of your house as columns, arches, and beams.

ON THE COVER

The altered cottage entry welcomes visitors with the glow from its six light-blue and fluted lanterns. Built-in benches provide a place to sit—or to rest legs. See "Front and Center," page 108.

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COVER PHOTO BY KELLER & KELLER
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*With second row folded down. Not available with leather seats. © 2004 Toyota Motor Sales, U.S.A., Inc.

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ACCENTS

THE HOLIDAY GUEST TEST

BY NOAH ADRIAN



TDH master carpenter Noah Adrian



For the past few years, my wife, Ellen, and I have hosted 25 to 30 people at our house for Thanksgiving—quite a feat, considering that we've never finished our dining room. Each year we gather around a large table in our master-frame great room, adding two more tables to the adjacent sunroom. I'll tell you, never once have we missed having a more formal dining area.

We know now that we're never going to use the dining room I carefully laid out when the house was designed. I'd rationalized that a formal dining room two rooms away from the kitchen would be fine, because when we used it, there would be plenty of people around to help carry food and plates back and forth. But no one's known (and I should have remembered), the host parties congregate in the kitchen.

So now we've decided that the dining room should be a library. It makes sense: It's in the northeast corner of the house, isolated from the noisy, utilitarian areas. And we're thinking that the room we originally picked out for the library, close to the powder room, would work better as an office than can convert to a guest room.

That's what happens when you start entertaining family and friends for the holidays. You find out what works—and what doesn't—in your home's design, and certain punch-list items soon jump to top priority. Things that you'd lived with as "forgivable" or "acceptable" reveal themselves as painfully wrong. Maybe there isn't enough seating in the living room, and no one has a place to put down a drink. Or perhaps there's too little outside lighting for guests to get from the car to the front door with ease.

AS YOU GEAR UP FOR HOLIDAY VISITORS, THINK ABOUT HOW WELL YOUR HOUSE'S DESIGN WORKS

Now is a good time to take notes. If nobody leaves the kitchen when you entertain, think about how you can make it more comfortable for guests. When you have overnight visitors and find there aren't enough places for them to sleep, imagine which rooms could easily convert to sleeping accommodations.

But don't stress out trying to make your place perfect before people arrive. More than likely they're not going to notice the details that catch your eye. I still remember the Thanksgiving I nearly coarsened a dry rub of mustard to Ellen's turkey because I insisted on climbing up to the top of the kitchen walls to fix some loose trim boards that I'd been obsessing about for months. I'm sure no one would have noticed it but me. So relax, enjoy your friends and family, and take pleasure in all the work you've put in to create a warm, inviting home. In the days that follow, make a checklist, in order of importance, of the things you'd like to change by this time next year. Of course, if you're anything like me, by this time next year you'll have a whole new list.

THE NEXT THIS OLD HOUSE

- Designing a kitchen
- Transforming a Gothic cottage
- Stair-rail styles
- Installing crown molding
- A mudroom for all seasons

ON SALE DECEMBER 20

SECOND PART SERIES

A revolution is coming in

Home Energy

Being crude prices are again inspiring creative solutions that could eliminate our oil dependence. By Jeremy Levin

In May, the price of a barrel of crude oil climbed past \$40, a level we hadn't seen since 1990. Then in late September, it went to more than \$50. America is once again caught in an oil price bind, and like the foreseeable future we'll be paying more for gasoline, heating fuel and oil in many related products and services. That's the bad news, but in recent history has proven, expensive energy can produce positive change.

We need only look back to 1973-85 when another price increase made Americans nervous about energy efficiency and support dependency. During that period, our economy grew 27 percent while oil consumption fell 17 percent. Oil imports dropped by 50 percent, including an 87 percent drop in deliveries from the Persian Gulf. It's raising our oil productivity, not



drive prices down and took control of our energy future. We can do even better today. It will take four, perhaps 20 years, to eliminate imports. And by 2050 we

could on our own be unshocked by replacing a self-sustaining energy infrastructure with alternative energy sources that are already more economical. Houses,

especially here, have potential for becoming more efficient, healthy and comfortable. The encouraging news is that "houses of tomorrow" are already being built today.

Even with my own house, a custom residence and office at 1300 East Inverness, Col. Although our winter temperatures can fall well below -40° we don't have a conventional heating system because we don't need one. But we do have it-to-walls, it-to-ceiling and it-to-a R-14 window glazing. The building is 25 percent airtight, and it night we can on average eliminate high-tech air conditioning or one-fifth the electricity needed over today's average. The roof carries solar collectors for water heating and photovoltaic panels (photo) for electricity. We employ additional strategies, but make many other highly efficient choices.

House built under the U.S. Green Building's (USGBC) program. For example, don't have conventional heating systems either, nor do they require conventional air conditioning over air up to 115°F outdoor air temperature. They share several features with any home and on made entirely of off-the-shelf materials and products. One unique feature: Warm heat from the refrigerator heats the water directly preventing the need from being a separate heater while it still

food. Researcher found that these home designs could consume 40 percent less energy than a comparably sized house, and that they could be cheaper to build.

An Illinois researcher, Perry Hagelwe, has built thousands of super-efficient houses whose low heating requirements can be met with heated air exchanger's heat exchanger a third the size of what conven-

The encouraging news is that "houses of tomorrow" are already being built today

tional houses require. So confident is Hagelwe of his house's performance, that he guarantees to pay any amount of no annual—that's right, annual—natural gas home heating bill above \$400. To date only a few houses have exceeded that modest number.

This all proves that we're already mainstreaming the alternatives marking the road to our housing future. Still, we can go a good deal further toward making

homes more efficient, while raising the quality of the indoor environment.

The next set of technologies will be near-building elements that gradually control heat and humidity and operate without mechanical systems. When a polymer called Cloud Gel is sandwiched between panes of window glass, it will switch from clear to reflective in a precise temperature and block heat gain from the sun. Phase-change drywall will both store and release heat to cope with room temperature. Photovoltaic window glass, siding and roofing tiles will produce most or all of a house's electricity.

The most distant future will see houses that embrace or mimic nature and create environments that help us feel and perform better. We already know much about the design strategy daylighting, views to the outside, superior indoor air quality, a widely dynamic indoor environment that stimulates your senses, making you happier and more alert.

Energy efficiency will indeed lead us away from our over dependence on oil. But it will also put us on an equally important path to homes that will inspire us.

Jeremy Levin is CEO of EnergyWise Institute and co-author of the book *Building the Oil-Independent Home*.

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ON THE JOB

Home, Sweet Home

Hansel and Gretel's place, it's not. Your place, it is—built one sheet cookie at a time



That's a lot of dough—in fact, it took 12 pounds of the stuff and 10 days of work to construct this 20-inch-tall gingerbread house.



Rebecca Russell's work elevates the notion of cookie-cutter houses. With an architect's eye for form and scale and a carpenter's level of precision, she's turned the gingerbread house into an art form. The New York City pastry artist brought the current *This Old House* television project, the Carlisle farmstead, to life here. Working from photographs, she'll custom-bake any style house down to the last detail, tinkering with the recipe ingredients and baking time to yield different colors for siding and trim, and caramelizing sugar to glaze the windows. Yes, they're edible,

This rendering of the renowned Carlisle farmstead provided the blueprint for the edible version above.



but with prices that start at \$100 for a stock cottage and run up to about \$1,000 for a complex house like this one, you might want to satisfy your sweet tooth elsewhere.

—Regina Schramling

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[SAVE SPACE]

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For times when job need more height than a step stool offers, this 5-foot aluminum ladder is ideal for getting in hard-to-reach places. Plus, it folds up into a slim cylinder that easily tucks into the back of a closet. 3-Step SuperFold by Coors, \$40, www.coorsproducts.com —Scott Schilling



Hurricane-Proof

All that huff and puff and your house still hasn't blown down

After this year's severe hurricane season, which damaged or destroyed many thousands of homes in the U.S., wind resistance is on the minds of homeowners in the affected areas. A new patented construction system may hold promise for wind-raged areas. It utilizes structural steel-braced panels (SBPs)—4-inch-thick rigid foam faced with fiber-reinforced panels (panels of the usual construction board)—for the walls, and panels faced with aluminum for the roof. They are assembled around a welded-and-weld frame, a steel edge beam supported by a series of steel columns embedded in the home's concrete foundation. Three of these new hurricane-resistant houses were built in Fort Charlotte, Florida, right before Charley hit—and survived winds of up to 143 mph, while most surrounding structures were leveled or severely damaged.

According to Home

Front, the manufacturer that developed the system, close to 50 such homes have been built in the past three years, and over 100 orders were placed in the wake of the destruction caused by Frances and Ivan. "Wind resistance isn't the only thing the new houses have going for them. They cost about as much as a wood-frame house but take you three days to complete, allowing owners off the build time. They're extremely energy efficient, with an insulation rating of R-10 (representing an AC bill of only \$50 a month during Florida's peak summer heat). And because the structures are so wind-resistant, there's no need to worry about rot or termites." —Charles Wenzel



PHOTO: COURTESY OF HOME FRONT

DURABILITY

ISN'T ALWAYS A PRETTY THING



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ON THE JOB

Does Your Contractor Need a Hug?

How to keep the peace among all the guys working on your house

Starting spouses have to find the hearing neighbors turn to Judge Judy. But when demands flare and budgets explode on a job site, it's often up to the homeowner to keep the peace. He's the leader of the pack, which often includes an architect, contractor, painter, plasterer and electrician all trying to work together," says Massachusetts-based author Andrew Goldstein. To ensure smooth communication Goldstein offers these tips:

Get team members to see the project from each other's point of view. A common couple counseling tactic: It can work on job sites too, says Goldstein. "It helps architects, who are trained to design, and builders, who are trained to put things together, to understand another perspective."

Remember, nobody's the bad guy. Despite your best efforts, team members may find themselves out of sync. Rather than taking sides, Goldstein recommends regular sit-downs to give everyone an opportunity to discuss potential problems and hopefully avoid them. "The homeowner is very much a part of this process and should go out of his way to be fair, direct and honest."

Show appreciation. "Giving thanks for a job well done is the most important thing a homeowner can do, and it's too often overlooked," says Goldstein. "If you come across as someone who appreciates what your crew is doing, it's going to have a positive effect on the job. If you show disrespect, it's going to work against the project. And the best part is it doesn't cost you anything!" —Bruce Koger



[REASON'S READING]

OFF THE SHELF

Here's tool tips to house-building advice to one guy's version of the simple life. Here are some new and noteworthy books by FCH contributors.

The House You Build by Dan Wilkinson (354/95) offers the author's insights on making your dream house—on budget—with simple floor plans and and-outgoing design strategies.

Model House to Build by John Kober (354/95) is a tool guide for building a model house, with step-by-step instructions for virtually every detail in the hardware store.

Building a Shed by Joseph Trull (354/95) shows how to design and build a beautiful structure to match your home's aesthetic. Features a step-by-step guide to building a shed, with custom details for English and French doors.



ILLUSTRATION BY JIMMY

[WORK SAFE]

SMARTER SNOW REMOVAL

There's no question that ergonomic snow-removal tools save your back. These two eliminate the need for bending and lifting altogether.



The Smart Handle Ergo Snow Pusher adds another angle to the standard bent-handled scoop—flexibly for added comfort. The length of the pole is adjustable, and the grip includes a non-slip foam. \$34. 800-458-7338 www.smarthandle.com



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—Scott Schilling

A GOOD REASON TO AVOID ANY HEAVY LIFTING: A SEASONAL ACCUMULATION OF 5 FEET OF SNOW ON A 20-FOOT-WIDE, 100-FOOT-LONG DRIVEWAY WEIGHS IN AT NEARLY 124,000 LB.



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And Then There Was Light

Warm wood and gleaming stainless steel turn a windowless kitchen into one that shines.

BY SARGARA GABLE
PHOTOGRAPHS BY RAY KACHAFORIAN

By the time Caroline and David knew got around to remodeling the kitchen of their 1970s contemporary home, the Calabasas, California, couple knew exactly what they were after. They wanted an open space, lots of light, a big pantry, and plenty of storage for Caroline's considerable collection of pots and pans, barbeque and baking equipment, and small appliances. "It had to be everything the old kitchen was not," says Caroline, referring to the former layout, which had no windows and a dropped ceiling. "It was like walking into a dark hole."

Because the kitchen's footprint had to remain the same, the couple focused on squeezing the maximum utility from the space. With the help of local contractor Bill Senese, the old kitchen was gutted, new high-end appliances were incorporated, and a bigger peninsula, with a dishwasher and ample storage, was built to improve the kitchen's functionality. Warm-wood cabinetry and a round ceiling with cable and pendant lighting dramatically brightens up the once-dreary room. "It's very contemporary, but without the hard edges," says Caroline of the redesign. "And working as it is a dream."

People first-order cabinetry and finished-stone breakfast nooks are a warm countertop to stainless steel appliances and high-tech lighting. Dark-green engineered-stone countertops add a bold modernist architectural twist. And a round vent hood and translucent glass-front cabinet provide eye-catching focal points. The maple floor was distressed in place by hand before it was stained.

PHOTO: SARGARA GABLE



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The Plan

Raising the ceiling and making the most of underutilized space created a lighter, brighter, more efficient kitchen.

BEFORE Though ample in size, the kitchen seemed confined because of its dropped ceiling and harsh fluorescent lighting.

BELOW Raising the ceiling gave the kitchen a roomy open living. Low-voltage lighting creates natural light, and custom maple cabinetry streamlines the more white-trimmed dining area.



WHAT THEY DID

1 **BUTTED THE ROOM**
Working within the 11-by-10-foot space, the dated culinary appliances, and vinyl floor tiles were replaced with custom-order built-in, pro-style appliances and maple flooring.

2 **RAISED THE CEILING AND IMPROVED THE LIGHTING**
New overhead low-profile air-conditioning ducts allowed the ceiling to be raised 8 inches. (The AC return as vent was camouflaged within the rafters that hung around the room's perimeter.) Harsh fluorescent panel lighting was replaced with softer cable lighting installed in the raised ceiling area.

3 **ADDED A PANTRY**
Relocating the washer and dryer allowed the adjacent laundry room to be transformed into a separate pantry. It also houses the microwave, a small prep sink, and more storage cabinets.

4 **IMPROVED THE WORK ZONE**
A new breakfast-grange nook in the sink consists of the faucet and mixer stand, leaving up the work surface.

5 **ENLARGED THE PENINSULA**
A storage-corded 4-by-8-foot peninsula holds a dishwasher, compact two-burner to its left, bar stools, and back-to-back cabinets for pots and pans. The extended counter top also creates a more defined work area.



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Performance



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The Details

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1. **A POT FILLER** that telescopes out to the cooktop's front burner makes boiling big quantities of water much easier. It also adds a sculptural note to the finished backsplash.
2. **A PANELED** extension of the kitchen's functionality with a microwave, an extra sink and work area, and, not surprisingly, more storage.
3. **TOE-KICK DRAWERS** make good use of the "dead space" beneath base cabinets. The one next to the wall shows built-in herb pots. Another between the stove holds a collection of napkins.
4. **TOE-KICKETS AND SOAP DISPENSERS** serve the 30-inch bowls of the white porcelain sinks.
5. **A PULL-OUT GLASS-FRONT CUPBOARD** is lit from the inside. Colored glass with a decorative effect in the kitchen. With the doors and perhaps it shows off a collection of pottery plates.
6. **A NARROW PULL-OUT CABINET** next to the stove keeps bottles of olive oil and other ingredients within easy reach.
7. **HIGH-TECH, LOW-VOLTAGE LIGHTING**, including a line of pendant lights over the peninsula and a subtle system in the ceiling means: approximate natural light in a room with no windows.

For more kitchen ideas, trends, and products, go to www.boschhouse.com or www.boschhouse.com. Online: www.boschhouse.com. This Old House and select Kitchens in the Kitchen show and select.



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TOM SILVA
GENERAL CONTRACTOR



DON ROSS
AMERICAN LEVELS AND THEIR MAKERS



RICHARD FESTARI
PLUMBER & HEATING EXPERT



NORM ABRAM
MASTER CARPENTER

LEVEL DIMENSIONS

Why are construction levels 2½ inches tall and 1½ inches thick? We checked several of them and this seems to be a standard, but I can't figure out why. **BOB BOYD, PHARMACIA, Va.**

NORM ABRAM REPLIES: While those dimensions are very common for metal, wooden and steel levels, they're not standard. Some levels, for example, are slightly shorter and thinner (2 inches tall and 1½ inches thick) apparently to give the tool more stability when placed on edges. Another brand measures 2½ inches tall and 1 inch thick.

There's an interesting history of how this came to be. In his book *American Levels and Their Makers*, Volume 1, *New England's* (Guthrie Press), editor Don Ross books says that the early levels were made of wood—often Cuban mahogany and milled to be about 3 inches tall and 1½ inches thick. But as mahogany became scarce, level makers turned to other woods, then to cast iron, and in about 1900 aluminum.

Some time later, a federal specification required that levels made for government use be between 2½ and 2½ inches tall and between 1 and 1½ inches thick. Al Kemmer of Empire Levels says these specs aren't really enforced anymore, so manufacturers are free to come up with whatever dimensions will make a level cut and strong but also lightweight and easy to grasp.

By the way, modern European levels are only about 2 inches tall and ½ inch thick, according to Mike Prosser at German-level maker Skidde. But the levels that Skidde makes for the American market are better, Prosser says—2½ inches tall by 1½ inches thick—to help them withstand our rugged job sites.

DECKING OVER DECKING

My outdoor deck is 25 years old, and it was built with pressure-treated joists. The surface doesn't look very good so I'd like to go over it with ½" and ender or tell treated joists. I'd appreciate your comments on this project.

JOE MCNABE, SHAWNEE, CONN.



Most levels in the U.S. now have similar dimensions—around 2½ inches tall and 1½ inches thick—but that isn't always been the case.

TOM SILVA REPLIES: Don't do it. Going over existing exterior decking with new boards will trap moisture and encourage rot. The best approach is to remove all the old boards and replace them with new decking. This also gives you a chance to inspect areas vulnerable to rot, such as the tops of the joists and the ledger. If you find a problem, you can repair or replace the joists as necessary and make sure the ledger flashing is intact.

PLUGGED UNDERGROUND DRAINAGE

We have a walkout basement that opens to a below-grade concrete patio. Although there are four drains in the patio area, it's covered with water every time it rains. Can we clear these drains or will we have to dig up the patio to install a new drainage system?

ROBERT PASSINI, WINTERBROOK, N.Y.

ROGER COOK REPLIES: You have clogged drains or a clogged drywell or both. But your yard—most of it anyway—should be safe. To fix the problem, call a company that specializes in drainage cleaning and have them do what they can. They'll have to work carefully though, because drainage is easy to break. Many of these companies have camera scopes—cameras at the

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Ask THIS OLD HOUSE

Scientist to hold the lower warmer as long as the holes are sized to fit them. A hole that is ever slightly too large for its anchor and some won't hold properly while a hole that is too small puts you at risk of damaging the surrounding mortar as you force the anchor or the screw into place.

SMELLY DISPOSER

Our one-year-old food disposer works fine but emits an unpleasant odor that we haven't been able to get rid of. The plumbers who've checked it haven't been able to solve the problem either. How can we make the smell go away?

BETTY AND PAUL SHAW, BY EMAIL

RICHARD TRETHERWEY REPLIES: The smell is probably due to a buildup of food particles and grease. In a place most people never think to clean, the underside of the splash beffle, the rubber flap that covers the drain opening.

First, cut the power to the disposer either by unplugging it or by tripping its breaker—you don't want the unit to start up accidentally. Now reach through the splash beffle and clean its underside with a plastic scouring pad and some dish soap. While you're at it, scrub the upper lip of the grinding chamber (above right) too. Remove your hand, reconnect the power, and fill the sink about halfway with warm water mixed with ½ cup of baking soda. Turn on the disposer, take out the sink stopper and flush the disposer clean.

To minimize odors in the future, always use plenty of cold water when the disposer is on and leave it on for 15 to 20 seconds after grinding stops. Don't toss coffee beans, peels, onion skins, or other fibrous foods down the drain—they'll clog the shredder ring—but it's okay to grind peach or nectarine pits now and then to scour the grinder's teeth clean. Another way to keep a disposer smelling fresh is to toss it a portion of biodegradable cleaners. Or you can just grind up quartered lemons or limes which leave behind a fresh citrus smell.

NAIL-STUDDED FLOOR

A previous owner drove hundreds of ring-shank nails through the face of the oak floor boards in the living room and dining room.

INSIDE A GARBAGE DISPOSER



Only the top half of a garbage disposer the grinding chamber handles waste so it's never to and the underside of its splash beffle are areas you need to scrub if your disposer begins to smell funky.

To quiet a squeaking floor, I guess—then ran over it with a car. I tried to pull the nail out the carpet, but I can't pull the nail without damaging the oak, and I can't drive them deeper because the wood is so hard. It's low to see this beautiful floor. What should I do?

DEB OLIVER, AUSTIN, TEX, EMAIL

TOM SIKKA REPLIES: Well, you've set your work out for you. Ring shank nails are hard to remove as you discovered and they damage the wood surface when you do manage to pull them out. My suggestion, by sanding off the nailheads that are right on the surface using a drum sander fitted with 36- or 24-grit cloth-backed paper to make sure that you don't damage the drum, which will cost you a few hundred dollars to replace, tap down any nails that have popped to the bottom of the hole. As the nails will probably rip the sandpaper fairly frequently so stack up before you start. Also, take it easy. An aggressive sander like the one will cut through

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Ask THIS OLD HOUSE

more wood than a normal refinishing and shorten the life of your floors.

After the hatch is loaded every you should be able to drive the nail shank a little deeper with a hammer and a nail set. Then you can withdraw the flow as usual provided there is still enough wood—to act—above the tongue. Once you finish sanding, fill all those holes with wood filler matched to the color of the wood. Unless you are a very dark stain, the filled holes might still be visible after the floor is finished. But if you're unsure about living with the original floors, maybe you'll see this as character rather than a character flaw.

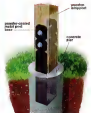
ROOFING A LAMPPOST

Is there any way to make a wood deck lamp post rot-proof? My brother has replaced his driveway lamp post three times, even though he coated the buried end with wood preservative each time. A vinyl or metal post is out of the question, he wants a traditional look.

Tom Sawyer, Bloomington, Conn.

TOM SAWYER: Any wood in contact with the ground will eventually rot, even

COLUMN BASE FOR POSTS



A column base provides a strong, sealed connection to an in-ground concrete pier. That has the advantage of leaving the post above grade, where it is much less likely to rot.

pressure-treated lumber. All you can do is slow down the decay process by using rot-resistant or pressure-treated wood and by tamping a well-draining mix of soil and pea gravel (or gravel and stone dust) around it.

But if you really want a wood post to last a long time, don't put it into the ground at all. Instead, pour a concrete pier with a depth equal to one-third the post length embedded in galvanized or powder-coated metal post base in the well rim. Then after the concrete has cured for a week or more, bolt your post to the base. To help the post last even longer, before you bolt it on, soak the end-grain of the bottom of the post for an hour in a container filled with water-repellent wood preservative.

SEALING BULKHEAD DOORS

I've been having a problem with my metal bulkhead door. Water drips down on it from a gutter, seeps through the door, seeps in the drainwell, and eventually ends up in the cellar. Is there something I can do about this?

Barbara Gosselin, Shrewsbury, Mass.

TOM SAWYER: Absolutely first, take care of that gutter. Depending on where the water is overflowing, you may have to clean the gutter, repair it, relocate it, or replace it. Once you do, I bet you'll also notice that things are a lot quieter—water dripping on a metal bulkhead door is like a rattlesnake in a drum. Eliminating the noisy gutter may also be enough to stop the door leak.

First, maybe the door's header is rusted out. The header is a length of steel with a lip that directs water around the door. A header should be kept clean and painted so it doesn't rust. But if yours is rusted, you may be able to replace it by getting in touch with the original manufacturer for a replacement.

PROTECTING OUTDOOR WOOD

I'm a little confused about the types of products that are used on exterior wood. What's the difference between a "water repellent" and a "wood preservative"? Are there any products that combine the two?

Berry Lou Davis, Salisbury, Md.

TOM SAWYER: A wood preservative contains chemicals that kill the fungi



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