

**Shower Power: Build a Wood Shower Surround**

# Extreme How-To®

The Enthusiast's Guide to Home Improvement

**INTERNATIONAL  
BUILDERS' SHOW**

**PREVIEW**

fontanot  
arké

**IBS SHOW  
SOUTH HALL  
BOOTH S647**

Jan/Feb 2017 | ExtremeHowTo.com

\$5.99



**PLUS:**

**GRANITE GUIDELINES  
FOR HOME IMPROVEMENT**

**BUILDING THE PERFECT  
KITCHEN CABINET**

**REPAINT A METAL ROOF**





**TG**  
**KIK**  
**PRO SERIES**

[www.MyTGTools.com](http://www.MyTGTools.com)

**YOUR ONE SOURCE SOLUTION**

**FASTER  
EASIER  
CLEANER**

**KIK® Forstner Bit**

**KIK® HS Brad Point**

**KIK® Spade Bit**

**135° Split Point start from Contact  
3-flat shank, less chuck slippage**

**Concrete**

**High Speed**

**Titanium  
Coated  
High Speed**

**Heavy Duty**

**Solid Cobalt**

**S&D**

**Stronger, Faster  
Less Walking**

**General Purpose**

**Longer Lasting**

**Heavy Duty  
Steel Usage**

**Heavy Duty  
Steel Usage**

**Special Use Heavy  
Duty Steel Usage**

**[www.MyTGTools.com/kik1.php](http://www.MyTGTools.com/kik1.php) 1-800-687-4122**

**TG® Tools • 1010 Cedar Ave. • St. Charles, IL 60174 • ph 800-687-4122 • fax 630-584-4722**







**BlueDevil**<sup>®</sup>  
PRODUCTS  
**1.888.863.0426**

*life happens...*

When the hard part repair  
just isn't an option...

**[www.gobdp.com](http://www.gobdp.com)**



# We Put a **KIK**® in Your Boring Tasks!

6 Cutting Edges

The revolutionary **KIK**® Spade Bit has over 30% more cutting surface making them much faster and longer lasting than standard spade bits. There is no protruding tang to bend or break allowing these bits to even bore non-ferrous sheet metals and curved holes too! Tested and Proven Superior by an Independent Lab.

Plastic

Brass

Acrylic

6 Cutting Edges

**KIK**® HS Brad Point

**Independent Lab Tested and Proven**  
Designed for Drilling Sheet Metal, Wood and Plastic Faster, Cleaner with Longer Life and no Walking on the Surface.

**In Wood:**

- **Approximately 100% Faster** Compared to Common Brad Point
- **40% Faster** Compared to Standard Drill Bits

**In Sheet Metal:**

- **50% Cleaner Entry**
- **Consistently Round Hole**
- **20% Less Walking**

**In Acrylic:**

- **No cracking** Drilling Acrylic
- **150% Faster** Compared to Standard Drills
- **690% Faster** Than Other Brad Points

All products are available at Hardware Stores, and the following Internet Retailers:



ShopLadder

amazon.com

**WCS**  
Wholesale Contractor Supply

9 Cutting Edges  
3 on Each Blade

**KIK**® Forstner Bit

**Proven Superior by an Independent Lab**  
**Cleaner Entry and Exit**

- **Titanium Coated**
- **3-Flat Shank**  
Open Head Design for no Clogging  
Easy Drilling and Direction Control

- **Bores through Hard Woods 100% Faster** Compared to Standard Forstners

- **Bores**
- **Mills**
- **Routes**
- **Cuts**

- **Bores Curved Paths**
- **Channels**

- **Bores Through Acrylics Cleanly Without Melting**  
Able to Bore 90 Degree Curved Paths

**www.MyTGTools.com/kik1.php 1-800-687-4122**

**TG**® Tools • 1010 Cedar Ave. • St. Charles, IL 60174 • ph 800-687-4122 • fax 630-584-4722

# CONTENTS



## FEATURES

### **24 Granite Guidelines for Home Improvement**

Tackle the small jobs, but leave the big ones for the pros.

### **34 Preview of the International Builders' Show**

### **48 Shower Power: Build a Wood Shower Surround**

Wood in the shower instead of tile. We show you how.

## EVERY ISSUE

**6 From the Editor**

**79 Advertisers Index**

## COLUMNS

**8 Q & A**

### **12 Project Next**

Get the Kitchen of Your Dreams by Building the Perfect Cabinet

## DEPARTMENTS

### **62 Do-It-Yourself**

How to Repair a Metal Roof

### **74 Spotlight**

Install a Whole-House Water Filter

### **76 Hot Products**



Cover photo courtesy of Arke





THE NEW DRIVING FORCE IN THE FASTENER INDUSTRY

**Chromium-6 is a known human carcinogen.**

**Chromium-6 is used in anti-corrosion coatings.**

**We are Chromium-6 free!**



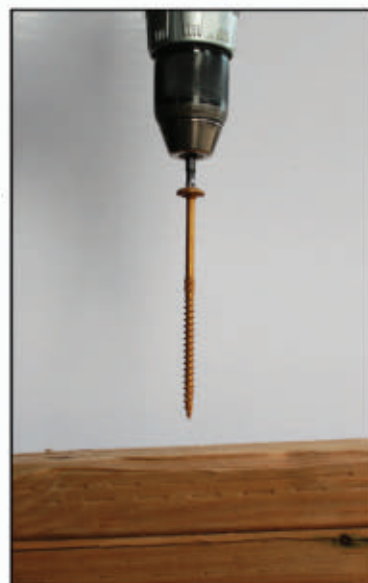
**Are your fasteners?**

U2 fasteners™ designed screws that have superior driving, features and coating that make contractors say, "Ooh, Ahh, WOW!"

**Can your  
screw  
do this?**

**\*Tight Star Recess**

This system is designed to grasp the U-BIT tightly and can be installed with one hand.



With 5 product lines, we have a diverse lineup of all essential screw types.



phone: 807-345-3119 | fax: 807-623-6224 | [www.u2fasteners.com](http://www.u2fasteners.com) | [sales@u2fasteners.com](mailto:sales@u2fasteners.com)

What if your roof did more than protect your house from the elements? What if it generated electricity for the home? That's the idea behind the new solar roofing options recently unveiled by Tesla founder and CEO Elon Musk. The solar roofing comes in four styles including "Textured Glass Tile," "Slate Glass Tile," "Tuscan Glass Tile" and "Smooth Glass Tile." Each of these options resemble a current roofing style but are made up of quartz glass tiles that are embedded with solar cells. In other words, the new solar products actually look like roofs rather than the noticeably clunky aftermarket solar panels seen on many roofs today. According to Musk, Tesla's solar roofing generates enough energy to fully power a household, with the power designed to be stored in the company's Powerwall 2.0 battery units so homeowners can keep a reserve of backup energy.

As far as cost, Tesla's roof reportedly will cost less than the full cost of a roof, although the company declined to provide specifics on pricing, since it will depend on a number of factors such as installation specifics. The solar roof product should start to see installations by summer, however, so time will soon tell what homeowners can expect regarding initial cost and long-term performance.

Coming from a company with such a stellar reputation for developing cutting-edge technologies, the new Tesla solar roofs present an exciting new development in home-improvement innovation. You'll also find a preview of many more modern technologies for home construction in *Extreme How-To's* preview of the International Builders' Show found in this issue. We offer a sneak peek at the products soon to be on display at the largest residential construction convention of 2017, where many building trends will be set for the year to follow.

Also in this issue, see how the pros install a granite countertop, how contractor Mark Clement built a wood-paneled shower, how DIY'er Clint Johnson painted his metal roof, and how you can design a perfect kitchen cabinet.

Thanks for reading,




**EDITOR-IN-CHIEF**  
Matt Weber  
mweber@latitude3.com

**ADVISORY BOARD**  
Rob Robillard  
Larry Walton  
Kathy Ziprik  
Mark Clement

**CREATIVE DIRECTOR**  
Wesley Glassco

**CIRCULATION**  
Jennifer Pentecost

**PUBLISHER**  
Jeremy Hollingsworth  
jhollingsworth@latitude3.com

**ADVERTISING SALES**  
Jason Holsomback  
jholsomback@latitude3.com

Nick Bishop  
nbishop@latitude3.com

**ONLINE MEDIA ASSISTANT**  
Sonia Buchanan

**BUSINESS MANAGER**  
Dusty Statham

**SUBSCRIPTIONS**  
Customer Service  
888-587-8911

**PRESIDENT**  
Trent R. Boozer

**EXECUTIVE VICE-PRESIDENT**  
Chad Gillikin

*Extreme How-To* is published by  
**LATITUDE3 MEDIA GROUP, LLC**  
2300 Resource Drive, Suite B  
Birmingham, AL 35242  
Phone 205.949.1600 • Fax 205.949.1601  
www.extremehowto.com

*Extreme How-To* (ISSN 1540-5346) is published and distributed monthly to DIY home improvement enthusiasts by Latitude3 Media Group, LLC, 2300 Resource Drive, Suite B, Birmingham, AL 35242 (executive and editorial offices). All rights reserved. Neither this publication nor any part of it may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without permission of Latitude3 Media Group, LLC. Subscriptions: U.S. and possessions: 1 year (9 issues) - \$18.97; foreign, 1 year (9 issues) - \$32.50. U.S. funds only. POSTMASTER: Send address changes to: *Extreme How-To*, P.O. Box 4320, Oregon, IL 61061. SUBSCRIBER SERVICE: To order a subscription or change your address, write to *Extreme How-To*, P.O. Box 4320, Oregon, IL 61061, or call 888-587-8911; or E-mail to [ehwt@pubdmgroup.com](mailto:ehwt@pubdmgroup.com); or visit [www.extremehowto.com](http://www.extremehowto.com). To order back issues, call (205) 949.1603.

The information in *Extreme How-To's* editorial content is intended to explain and simplify home-improvement tasks. Tools, products, materials, techniques, building codes and local regulations change; therefore, *Latitude3* assumes no liability for omissions, errors or the outcome of any project. The reader must always exercise reasonable caution, follow current codes and regulations that may apply, and is urged to consult with a licensed professional if in doubt about any procedures. **Printed in the USA**



## WHEN IT COMES TO CABINET INSTALLATION YOU NEED SCREWS YOU CAN DEPEND ON

Quickscrews provides a little more flexibility by offering over a dozen different varieties of cabinet installation screws. Our line includes different drives, threads, self-drilling points, and even painted heads.



**ORDER ONLINE AT**  
**[WWW.QUICKSCREWS.COM](http://WWW.QUICKSCREWS.COM)**

**GIVE US A CALL AT 800-743-6916**

**Q:** I saw a photo online of what looked like interior wooden curtains that slid together on an overhead track to cover a window. How is this accomplished?

**A:** The wood curtains were probably mounted using rolling door hardware. An interior rolling "barn door" can add to the décor and also make efficient use of available space. Companies such as Custom Service

Hardware offer rolling barn door hardware kits, which consist of a guide track that is mounted above an entryway (or window) and wheeled hardware from which the door (or wood "curtains") hang. Once installed, the door or curtains can roll from side to side along the overhead track.

**Q:** Is there any easier method of extracting a broken fence post than digging up the entire concrete base?

**A:** After removing the fence rails from each side, loosen the post and footing by rocking it from side to side. Dig out some of the dirt around the post and lean it back and forth. If it's too heavy or firmly embedded in concrete to remove, you can extract it by using a car jack. First, nail or screw a foot-long 2x4 block to the post about 18 inches from the bottom. This will be your lifting point. Nail a 2x6 crosswise to the post directly beneath the block, forming a "t" shape. Rest one end of the 2x6 on the car jack and the other on concrete blocks. Raise the jack to lever the 2x6 and lift the post up by the 2x4 block.

## Mother Nature knows the best footings are BIG AND ROUND.

Adding on? Building a deck? Take a lesson from nature - round is better, stronger, smarter. Bigfoot Systems® pre-molded, ready-to-use footing forms have a well-established advantage - their shape.

Round footings are easier to level, take less concrete and can be installed in one day.

Bigfoot delivers the flexibility to build decks, porches, additions and many other applications regardless of height, complexity or weight requirements.

**Choose the best, the strongest, the smartest.**

**For stability you can trust  
Build it with Bigfoot!**

**BIGFOOT**  
SYSTEMS® The Original.

**800-934-0393**  
[www.bigfootsystems.com](http://www.bigfootsystems.com)



ES

Canadian  
Construction  
Materials  
Centre





Structural  
Lag Screws



Hidden  
Link



Fascia  
Board  
Screws



Stainless Steel  
Screws



Mantis  
Clips

# BUILDING A DECK?

## WE HAVE YOU COVERED.

Sure Drive USA deck fastening solutions — we are your deck fastening experts.  
From visible to hidden, we have every fastener you need to build your deck.



[www.suredrive.com](http://www.suredrive.com)



**Q:** Why is it necessary to wait a few weeks before staining a new pressure-treated deck?

**A:** Treatment with waterborne preservatives leaves moisture in the wood that can impede penetration and drying of stains and paints. In fact, a freshly treated piece of lumber might contain as much as 2 to 4 gallons of water per cubic foot. For the best performance of paint and stain coatings, the wood needs to dry prior to stain/sealer application. Typically, treated wood will be ready for finishing 60 days after installation, but estimating exactly how long to wait is difficult because it depends on the time elapsed since pressure treatment, sun exposure, local temperature and recent weather conditions.

**Q:** What is the best type of screen material for a screened porch?

**A:** Fiberglass and aluminum are the two main choices for a screen porch material. The holes in both types of screens are small enough to keep insects out. Some builders believe fiberglass is a better choice for most projects (the exception being when you want to match a pre-existing aluminum screen). Fiberglass screen doesn't rust or stain and is more flexible than aluminum screens. Fiberglass doesn't rip or scratch as easily as aluminum and has far more color choices and styles than aluminum. However, other builders still prefer aluminum screen's proven long-term resistance to sagging. For aluminum screens, charcoal or black are the most popular choices because they appear almost invisible from the inside while reducing the glare associated with silver aluminum. **EHT**

## Starrett Power Tool Accessories and Hand Tools





<http://starrett.co/2aMYArX>  
Watch the Video!  
starrett.com






Your name depends on ours...



What company is a cut above the rest?



arkè  
contanot

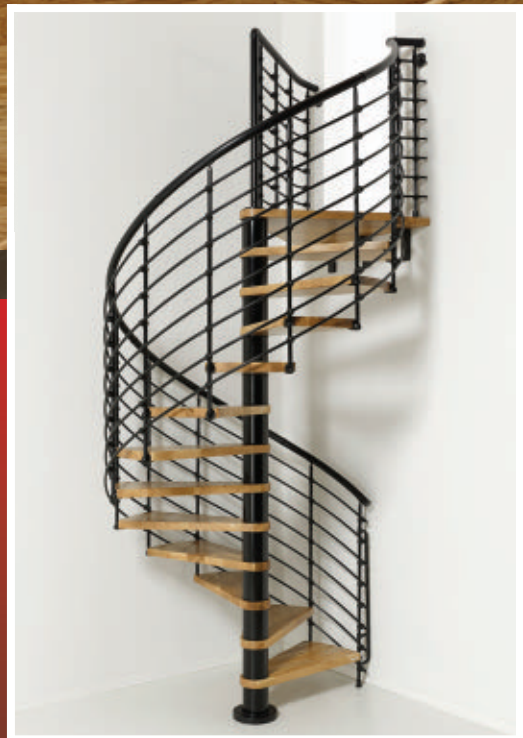
# SPIRAL STAIRS AND MODULAR STAIR CASE KITS

AVAILABLE THROUGHOUT THE USA, ARKE SPIRAL AND MODULAR STAIRCASE KITS CAN BE BUILT IN A DAY BY THE AVERAGE DO-IT-YOURSELF HOME ENTHUSIAST.

## The OAK 70.XTRA ▶

The Oak 70.XTRA is an adjustable premier series spiral staircase that features solid Oak wooden stair treads and landing to complement and add style to any interior living space. Surrounding the full length of the staircase, the horizontal balusters and railing design is visually unique when compared to the traditional vertical baluster design of most stairs. The staircase can be easily installed by the homeowner in a single day using common household tools. The Oak 70.XTRA is available in 2 diameter sizes and is available in 2 choices of color...Hi-Gloss Black and Hi-Gloss White.

- Standard kit includes 12 oak wood stair treads, a landing, a complete handrail, and all necessary hardware and connectors.
- Diameters available include a 5 ft. 3 in. model and a 4 ft. 3 in. model.
- The height range for the standard kit is adjustable from 8 ft. 3 in. to 10 ft. 2 7/8 in. and with additional components, can be installed to a maximum height of 11 ft. 9 5/16 in.
- Powder coat finished painted in either Hi-Gloss Black or Hi-Gloss White.
- Can be installed in a clockwise or counterclockwise rotation.
- Stair treads and landing are made of solid Oak wood with a natural stain and a polyurethane protective coating.
- Balcony rail kits are available in matching color and horizontal baluster and railing design.
- Handrail is manufactured from an aluminum core surrounded by a soft PVC cover to allow the handrail to be curved at the time of installation to accommodate the radius of the staircase.
- Rise between stair treads is adjustable from 8 3/8 in. to 9 1/4 in.
- Interior installation only.
- A complete installation guide is included in all kits and an installation video is available upon request.
- Homeowner should consult with local building department concerning building codes prior to purchase.



(888) 782-4758

arkè  
contanot

[www.arkestairs.com](http://www.arkestairs.com)

# DIY Cabinet Design

*Get the Kitchen of Your Dreams by Building the Perfect Cabinet*



**By Linda Parker**

One of the best ways to revamp your kitchen is to give the kitchen cabinet a makeover or to install brand new cabinets. Even though building kitchen cabinets is not a very complicated task, the project would definitely require some basic knowledge of woodworking. For even the most experienced carpenter, the task of cabinet construction can be a daunting one. Making kitchen cabinets is essentially a repetitive process of creating a box shape. However, creating matching door and drawer fronts can make the job more complicated.

The process can be broken down into four basic steps:

- Assemble the cabinet base, except the front, using heavy plywood. Add shelves to the inside using glue and fasteners. Available fasteners for cabinet construction include nails, pocket screws, dowels and other options.

- Attach face-frames made of solid or paint-grade wood to the base. Place the base on its back, position the cabinet doors over the face-frames, and mark the hinge locations.

- Attach hinges, handles or drawer pulls to the cabinet doors, drawers and base.

- Install the cabinet into the wall using appropriate screws and/or mounting hardware.

If you are designing and building kitchen cabinets for the first time, it may be a good idea to consult a professional for advice on how to handle the more complicated parts of the task. Another option for those wanting to avoid too much woodworking would be to give old kitchen cabinets a makeover to make them as good as new.

Before you begin, it's important to get organized. This means keeping track of your wood materials and various pieces, because once you begin the process everything





Bellawood - Artisan Sorrel Ash

## More than 400 beautiful floors in stock and ready for you!

Millions of Americans have turned to us for the beautiful hardwood floors they've always dreamed of—at a low price they deserve. You can, too.

For the biggest selection, the lowest prices and highest quality flooring anywhere, visit your flooring experts at Lumber Liquidators.

**LUMBER  
LIQUIDATORS<sup>™</sup>**  
HARDWOOD FLOORS FOR LESS!

Call or go online for a  
FREE CATALOG today.

Hundreds of stores nationwide | 1-800-HARDWOOD | [lumberliquidators.com](http://lumberliquidators.com)





could become hard to keep track of, leading to confusion and misplacement of wood pieces. It's important to label any wood pieces and individual doors you remove according to where they will need to go.

When it comes to construction, safety is the number one priority. This means keeping all your tools in a safe place and easily visible. In carpentry, tools can easily turn deadly, so make sure to maintain an orderly worksite and keep any sharp tools away from children and on steady ground.

## CABINET STYLES

Before you begin building or remodeling the kitchen cabinet, you must decide on a style for the cabinets. It's important

## STOP FLOOR SQUEAKS

In Carpeted, Hardwood and Linoleum floors with **Squeeeeeek No More®**



Available at participating Big Box and Hardware stores



The **Squeeeeeek No More®** kit stops floor squeaks through carpeted floors using a special screw that passes safely through the carpet. When used on hardwood floors, the screw breaks 1/5 of an inch below the surface of the floor. A small hole is left that can be easily concealed with wood filler.



SCAN TO WATCH VIDEO

O'Berry Enterprises, Inc.  
800-459-8428  
patrick8742@yahoo.com  
5306 Business Parkway  
Ringwood, IL 60072  
www.floorsqueaks.com

## Replace Shingles the Smart Way!



- Easy damage-free shingle replacement
- Nail-slot feature ensures proper offset
- Nail-pulling end replaces flat bar



For ordering information:  
**800.297.7487**  
[www.pactool.us](http://www.pactool.us)

**PACTOOL**  
INTERNATIONAL



# Beautiful Wood Made Easy!



"Please tell your customers it's so easy that a 68 year old woman can do it!"

Dotty Brown

*Former editor at the Philadelphia Inquirer and author of "Boathouse Row: Waves of Change in the Birthplace of American Rowing"*

Visit [www.armclark.com](http://www.armclark.com) to learn more about wood preparation and stain application, including downloadable tips & advice

Unlike waterborne acrylic and many other oil based stains, Armstrong-Clark oil based wood stains do not peel or crack. Stripping and sanding is not required for maintenance coats. Our stain can be applied in direct sunlight and the heat of the day without becoming sticky. Wiping is not required during application. Simply put, Armstrong-Clark oil based wood stains are just "so eeeaaassyyy!" to use.

Ask your local independent hardware or paint store for  
Armstrong-Clark wood stain

(not sold in big box stores)

BACKED BY SEVEN  
GENERATIONS OF  
EXPERIENCE IN THE  
FIELD OF WOOD  
PRESERVATION

VOC compliant  
in all 50 states



*Long Lasting, Easy to Apply, and a Breeze to Maintain*

[www.armclark.com](http://www.armclark.com)  
800-916-8211





to ask yourself if you want the kitchen to match the rest of the house or to be different and unique. Three of the most popular categories for cabinet styles are:

- Modern - Lacquered wood cabinets in colorful shades.
- Traditional – Arched cabinets, recessed panels to give a cozy and more homely feel.
- Vintage – For a more old-world style, give the cabinets some decorative molding and use beaded boards.

## KITCHEN CABINET DOORS

The doors are the most visible feature of a kitchen cabinet. This can also be one of the more expensive aspects of a cabinet, but door replacement is still less expensive than a full cabinet replacement. It is the face of the cabinet so it's

## Plan Station



Being organized is the key to building a great project. Whether you're remodeling or building new, Plan Station helps you **WORK LIKE A PRO.**

- No more makeshift tables
- Easy setup and portable
- Hangs on 48" centers
- Great for your shop or garage

**ORDER AT: [planstation.biz](http://planstation.biz)**

ICC  
ES  
ESR-3654



## Bronze Star CCTX Star Drive Structural Lag Screws

**CCTX-14 Series:**  
• 1/4" x 2-1/2" to 6"

**CCTX-516 Series:**  
• 5/16" x 3" to 6"

**CCTX-38 Series:**  
• 3/8" x 7" to 12"

Complies  
with 2015, 2012  
and 2009 International Building Code®  
(IBC) and 2015, 2012 and  
2009 International Residential  
Code® (IRC).



Packaged in Bulk, 100ct, & 50ct with Free Bit.



Building Connections!

**Free Shipping**  
On Orders Over \$60  
Delivered in the Continental USA

Visit us online  
for current specials!



[starfastenersplus.com](http://starfastenersplus.com)



# Trex®

OUTDOOR LIVING. ELEVATED.



**Trex** Transcend®  
RAILING

**Trex** Reveal®  
ALUMINUM RAILING

**Trex** Select®  
RAILING

**Trex** Outdoor Lighting™

**Trex** Deck Lighting™

**Trex** Hideaway®  
HIDDEN FASTENERS

**Trex** RainEscape®  
DECK DRAINAGE SYSTEM

**Trex** Outdoor Furniture™

**DIY HOME CENTER.com**

COUPON CODE: EXTREME17

Save 5% on every order. Most orders ship free!

RESTRICTIONS APPLY. OFFER EXPIRES 3/31/17

(888) 349-4660

## PROJECT NEXT

important to know the various styles available in the market.

### SHAKER

The most common style of door in kitchen cabinets today, this is a



five-piece flat-panel style door. The shaker furniture style is known for its use of clean lines with an emphasis on utility. If you don't use a very expensive type of wood, this style can be cost-effective and using a natural finish instead of paint can also save you a lot.

### LOUVERED



These cabinet doors have slats with space in between them, making them great for spaces that require ventilation. This style looks very stylish in a kitchen but is also on the more expensive end of the spectrum.

### FLAT

Made with hard lines and with no frills, this is a simple, stylish and cost-effective option. Use laminate for extra cost cutting.

### INSET

This is a pricey option but one which will last for generations to come. This type of cabinet door is set inside the cabinet frame and designed with great precision so as to fit perfectly.

### DISTRESSED



Great for a vintage-style kitchen, these doors have the corners

## THE BEST PORTABLE TOOL STORAGE AVAILABLE

Water  
Resistant

Lockable

Rolls  
Anywhere



## Stop Lifting and Start Rolling!

- High volume tool storage and transport
- Takes the work out of carrying tools and parts
- Double wall polyethylene durability
- Store - Lock - & Roll tools and supplies to the job IN ONE TRIP!



1-800-KADDIES (523-3437)

**WWW.KADDIES.COM**



**100%**  
**MADE IN THE USA**



MAZE is the only nail manufacturer that can make that claim!

# Roofing Nails

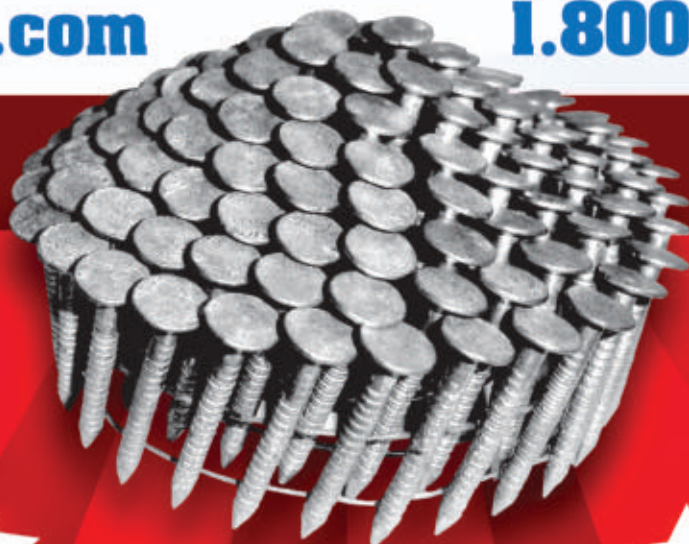


- ★ MAZE double hot-dipped galvanized ring shank roofing nails are **Miami-Dade County Approved!**
- ★ MAZE roofing nails are available in hand drive and coils for easy application!
- ★ MAZE roofing nails are available in both double hot-dipped galvanized and stainless steel!

**mazenails.com**

**1.800.435.5949**

Miami-Dade County, Florida  
Notice of Acceptance (NOA)



NOA Number: 16-0712.06  
Expiration Date: 8/17/21

rubbed off or other similar work done on them to give a beautifully worn look.

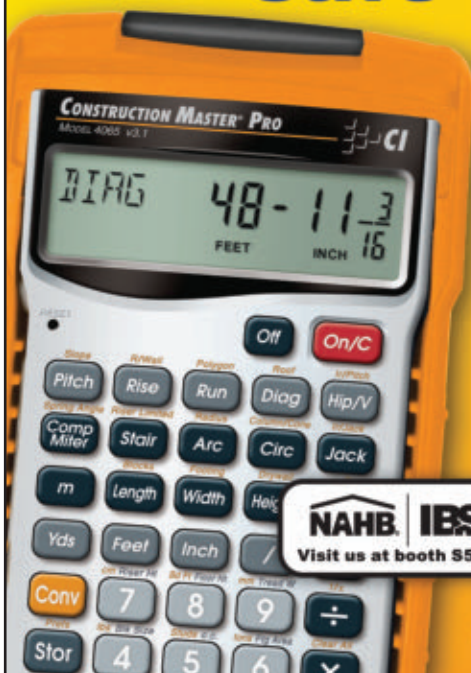
### KITCHEN CABINET COLORS

According to findings by the National Kitchen and Bath Association (NKBA), white, off-white and gray have proven to be the most popular color choices for kitchen cabinets in 2016. The research found that in addition to these simple colors, people also increasingly opt for neutral wall colors.

Interior designer Andrew Howard says gray is the perfect color for the kitchen, whether used on walls or cabinets as it the perfect combination of "elegance and approachability. It's both luxe and everyday practical."



## Improve Accuracy Reduce Costly Errors Save Time



### CONSTRUCTION MASTER® PRO

- Solves construction math **fast**
- Accurate, reliable, rugged
- Complete roof, rafter and framing solutions
- Automatic stair layouts – treads, risers, stringers

See how it can work for you:  
[www.calculated.com](http://www.calculated.com)

For a dealer near you, call  
**1-800-854-8075**

**NAHB IBS**  
Visit us at booth S540

See DEMOS on

**You Tube**



**CALCULATED INDUSTRIES**

A light blue with hints of gray can look very elegant and more subtle than plain blue. This shade would match very well with white or pale yellow if you want to create a soft atmosphere, with a classic feel.

On the other hand, if you opt to paint everything in white, the walls, the cabinet and the island, consider opting for printed floor tiles along with steel accents. This will give your kitchen a neutral feel, neither modern nor traditional.

A great way to add a pop of color to glass cabinets in the kitchen is to keep the cabinet white, but paint the back wall of the cabinet a bright color. For example, white cabinets with a bright turquoise green will look great and very creative.

### KITCHEN CABINET SIZES

The kitchen is a room that needs plenty of future planning.





while more specialized ones could take much longer to deliver.

Whether you plan on revamping your kitchen cabinets yourself or plan to hire someone to do it for you, these tips will help you get a beautiful finished product. Color, design, type of wood and size are the main components that you must be aware of in order to design some beautiful kitchen cabinets to perfectly suit your home. **EHT**

*Handles, pulls, knobs and hinges can make a big impact on cabinet décor. A hidden hinge located inside the door completely conceals the hardware from the cabinet front.*

This means making the cabinets accessible for years to come and making sure the doorways leading into the kitchen can allow wheel-chairs to enter. There should be enough room in the kitchen to move around without bumping into things.

If you are using a manufacturer to install the cabinets, then make sure you ask if the cabinets are made with a certain ceiling height in mind, because most cabinets are made using an 8-foot ceiling as a standard measure. Make sure your cabinet supplier is aware of all measurements in the room, including the height and width of the room as well as the height and width of any windows and window sills.

Remember to ask your supplier if they can produce a computer-generated design of the finished product. Cabinet sizes also have an effect on delivery time. Your cabinet supplier may have some standard cabinet sizes in stock

## Need an extra hand?

## Lift, shift, align, level and plumb up to 300 pounds!



**AIRSHIM™**

INFLATABLE PRY BAR & LEVELING TOOL

**300 LBS - CONTRACTOR-GRADE**

WINDOWS

DOORS

APPLIANCES

CABINETS

[WWW.AIRSHIM.COM](http://WWW.AIRSHIM.COM)

- Great for window, door, cabinet and appliance installs
- Raise and lower to perfect alignments, *by yourself!*
- Durable, no-scuff cover leaves no marks

**Call 1-800-854-8075**  
or visit **WWW.AIRSHIM.COM**  
for video and more information.





Visit us at booth S540



Model  
1190



FENCING

DECORATIVE IRON

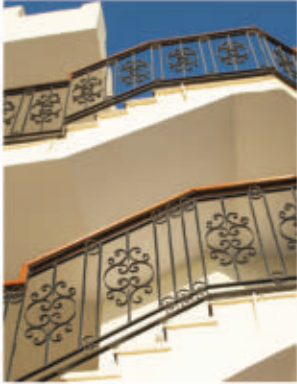
HANDRAILS

HI-DEF PLASMA

ACCESS CONTROLS



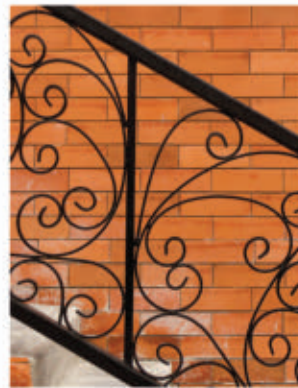
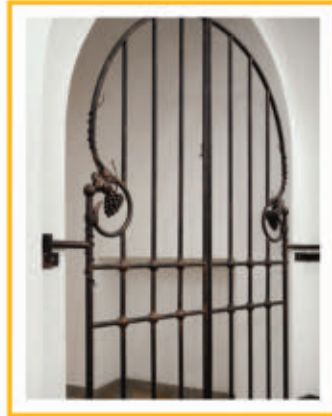
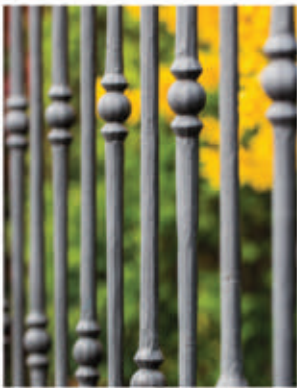
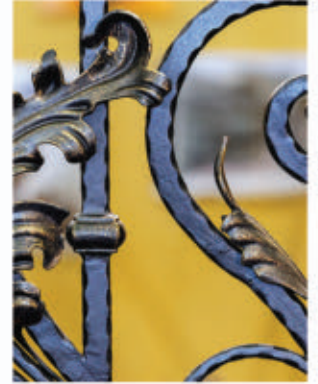
THOUSANDS OF ITEMS TO  
TRANSFORM YOUR  
SURROUNDINGS



800.542.2379  
KINGMETALS.COM

FACEBOOK  
PINTEREST  
YOUTUBE

Details.



KING ARCHITECTURAL METALS

LOS ANGELES  
DALLAS  
ATLANTA  
BALTIMORE







# GRANITE GUIDE- LINES FOR HOME IMPROVEMENT

By Matt Weber

**T**he *Extreme How-To* staff has fielded a lot of questions about granite countertops over the years. Many people like the natural appearance but ask, "Is this a DIY project?" The simple answer is that it depends on the scope of the project.

For a small end table or kitchen island, a DIY'er can likely do the job, assuming the structure beneath is adequately constructed to support the heavy material. Granite suppliers often have leftover cut-off pieces for sale that can be used for coffee tables or other small pieces of furniture. Reclaimed countertops can occasionally be found at home salvage shops.

DIY'ers should leave installation of large jobs to the professionals due to the specialized equipment required to cut, shape and transport the hard, brittle material. In fact, many experienced remodeling contractors shy away from granite countertops because the weight and rigidity of the material requires extreme care to avoid damaging a slab. If a contractor accidentally breaks a customer's slab, they will have to replace it, and eating the cost of that expensive material can erase their profit margin for the job. There is no give in the granite material; to bend it is to break it. This means a DIY'er runs the same (or greater) risk of calamity.

During transport from the supplier to the job site, the pro granite installers will load the slabs onto a truck equipped with special padded racks that isolate and secure the slabs to minimize vibration on the road. Large slabs are extremely heavy, requiring at least two people to load and unload them. Once arrived at the project location, special carts with rubber tires are used to move the slabs around the jobsite.

***Tackle the  
small jobs,  
but leave the  
big ones for  
the pros.***



The granite slabs are transported on special racks that reduce vibration on the road.

Throughout the operation of moving the slabs, countertop specialists might also stabilize the material with strategically placed angle-iron bracing during transport so the slabs don't deflect, which can lead to cracks or beaks. The tricky nature of handling the stone material is why many contractors who don't install granite for a living

leave the big jobs to the experts. (Note: Compare this aspect of granite to solid surface material, where if two people lift a 12-ft. solid surface sheet from each end, it will deflect about 12 to 18 inches.)

This article will show how the pros install a granite countertop, and why you'll be glad you called them.



Once on location, the installers use wheeled carts to move the heavy slabs around the site.

## HIGH DEMAND FOR GRANITE COUNTERTOPS

Since the earliest times granite has been used as a building material, and its polished stone surface remains highly popular for countertops. When polished and sealed, it resists staining and is very easy to clean and sanitize, and its extreme hardness means most knives won't scratch it (but it will blunt knives). It makes a hygienic surface for not only countertops but backsplashes, bathroom vanities, even matching sinks and basins. Granite's ability to withstand the outdoor environment also makes it suitable for exterior projects like garden paving, benches and more.

From an aesthetic perspective, this natural stone's quarried origin guarantees its uniqueness. It typically has a coarse, granular and evenly flecked pattern available in many colors, from beige, brown, black and gray to an array of reds, greens and blues. It is considered a luxury material, however, and the effort required to mine it from the ground and manufacture a finished countertop means you can expect to pay a high cost to purchase it.

## OUT WITH THE OLD

Once you've made your purchase, the granite installers will arrive with all materials to not only install your new top, but to remove the existing backsplash and countertops as well. This generally requires disconnecting all appliances like the electrical cables of your stovetop and the plumbing connections to your sink basin. The installers will remove these items and set them aside safely for reinstallation later.

The next phase is to remove all fasteners that secure the existing countertop to its cabinet base.



SAVE \$\$\$\$ HAVE FUN

# DIY COUNTERTOPS

kitchen • bath • laundry • garage • *be inspired*

for the extreme DIY'er in you



SolidSurface.com offers the sheet goods, adhesives, abrasives and other tools & supplies to enable you to build your dream countertops or other solid surface project. Solid surface material, best known as **Dupont™ Corian®**, works like wood with carbide-tipped tools and glues together seamlessly with color-matched adhesives.

Visit <http://solidsurface.com> now to see our great selection of material.



Custom  
**Corian®**  
**Vanity Tops, Too!**  
<http://solidsurface.com/vanities>



First step in removing an old countertop is to disconnect all integrated appliances.



In some cases, a countertop may have been fastened to the cabinet base prior to having the finished surface installed.

Although this sounds fairly straightforward, depending on the counter's method of construction, things can get tricky. This particular kitchen was built with laminate countertops that had oak edging. The workers removed all the visible fasteners but the countertops were still stuck in place. After a little exploratory surgery with a scraper and pry bar, they learned that the countertop plywood had been screwed to the base prior to having the laminate installed. This meant there were several areas where the laminate surface had to be peeled away, or the wood

edging had to be pried off, to access the hidden screws and dislodge the top. This job was a full kitchen replacement, which meant four different countertop surfaces had to be removed and replaced.

With all fasteners gone, the countertop should then lift off easily. A number of shims are often left behind attached to the cabinet base. The installers pried these off to begin installation of the granite on the flat, even top of the cabinet base.

## INSTALLATION

Each granite slab will have been fabricated to the exact size specified by the work order. It



Pry up the old laminate and remove any screws hidden beneath it.



With all screws removed, the countertop should lift freely off the base.

takes two workers per slab to lift the granite into place. This requires some muscle because the slabs must be carefully laid into position (not dropped) to avoid risk of sudden impact that could crack them or chip a corner.

The largest of the countertops—an L-shaped corner counter that housed the sink basin—required two slab sections seamed together at a prefabricated joint.

Once laid into place, the heavy slabs are very difficult to move. The installers use the type of handled suction cups favored by window installers to make slight adjustments to the slabs' lateral position.



Pry off any old wood blocks or shims from the top of the cabinet base.



Carefully set the new granite countertop section in place on the cabinet base.





This L-shaped counter required two sections seamed together.



Note the angle-iron bracing clamped across the length of the countertop to stabilize and reinforce its shape. This is particularly important for the section with the sink cut-out, which has a weakened center area since the granite is missing.

Level the countertop carefully. Use wood shims as needed to make sure the surface reads level from side to side and front to back.

The slabs are held in place by their weight and friction, as well as a bead of silicone applied along the cabinet edges (plus silicone beads placed behind and beneath the backsplash pieces).

The workers came equipped with a palette of caulk/sealant in various colors, which they mixed on site to blend with the specific granite pattern chosen for this project. When the colored sealant was applied to the joint between granite sections and polished smooth, the seam became nearly invisible.

If it's necessary to make any minor on-site cuts to the granite, such as trimming the length of a backsplash section, a grinder equipped with a diamond-grit blade should do the trick.

**Makes A Great Gift!**

# The Viper Scraper®

**Attaches to your shop vacuum.**

**Made in the USA**

**Totally compatible with the Dust Deputy®!**

Pat. Pend.

**Cleans while you're using it. All of the waste goes into your vacuum.**

**See them both in action on our website!**

**Dust Deputy**

**Captures 99% of the waste before it reaches your vacuum.**

- Pays for itself in filter replacement costs alone!
- Easy to empty bucket!
- Works equally well with wet or dry!

**Dust In**

**99% of Dust Here!**

**Oneida Air Systems**

Vac Not Included

U.S. Pat. 4,720,000 B1  
1,280,000 B2  
Dust Deputy Tool  
©2008 Oneida Air Systems, Inc.

Dust Deputy Now Available at these Fine Retailers.

**Call Today for Information & FREE Online Catalog!**

**1.800.732.4065**

**www.oneida-air.com**

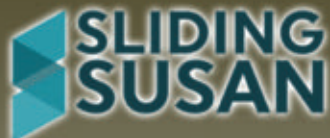
**Oneida Air Systems**

**Dust Collection Since 1993.**

Granite countertops that have an overhang require countertop supports. These metal supports carry the weight of the granite while serving as replacements for counter corbels, which often crowd

knee space or look unattractive. The supports are notched into and fastened to the cabinet base to provide a less noticeable solution.

Once the entire kitchen had new countertops, the kitchen gained a



INTRODUCING SLIDING SUSAN®  
ADVANCED ROLL OUT TECHNOLOGY.



DRAWERS



INSERTS



TRASH



CADDIES



SEE OUR FULL LINE OF DOVETAIL ROLLOUT DRAWERS AND ACCESSORIES AT

[www.slidingsusan.com](http://www.slidingsusan.com)

Patent: US D534, 750S

**\$10 Off First Order**  
Promo Code: howto



Made in America



The installers adjusted the counter-  
top's position with suction cups.



Level the surface carefully in every  
direction.



Use wood shims between the  
cabinet base and countertop to  
ensure level.



A color-matched caulk/sealant was  
mixed on site to camouflage the  
seam between sections.





*Don't take chances with the health of your home,  
install StegoCrawl Wrap Vapor Barrier in your crawl space.*

## PROFESSIONAL-GRADE VAPOR PROTECTION FOR YOUR HOME

Whether you are building a new home or have lived in yours for years, it is smart to make sure your crawl space has proper moisture protection. Moisture can create environments for mold growth and damage building materials. Ensure a healthy home and save on your home's overall energy efficiency by using StegoCrawl Wrap Vapor Barrier to encapsulate your crawl space.

*"You can prevent damage to your home and furnishings,  
save money, and avoid potential health problems  
by controlling moisture and eliminating mold growth."*

— U.S. Environmental Protection Agency, [www.epa.gov](http://www.epa.gov)



**National Availability. Local Support.**

**STEGO INDUSTRIES, LLC**

949.257.4100 • 877.464.7834

[www.stegoindustries.com](http://www.stegoindustries.com)

For 10% Off Enter  
Promo Code: **wrap 10**

Now Available  
Online!

dramatic change in décor. The granite gave the space a nice, luxurious appearance while complementing the kitchen's existing color scheme. And with granite's low-maintenance characteristics, the upgrade was a success for both looks and everyday living. **EHT**



Small cuts can be made to granite backsplash material using a grinder with a diamond-grit blade.



The countertops are held in place by weight, friction and beads of silicone sealant.

## DIY COUNTERTOPS IN 10 SIMPLE STEPS

*EHT* ran a feature in the July/August 2016 issue showing in detail how DIY'ers can build a countertop made of solid surface material (see [Extremehowto.com](http://Extremehowto.com)). Here's an extremely abbreviated breakdown of those steps to give you an idea of what you can expect.

**1) Select the material:** Solid surface (think Corian®) is popular for DIY for its workability with standard woodworking power tools. Other options like laminate (think Formica), or stone (think granite or engineered Silestone®), do not share this ease of workability.

**2) Gather the tools & equipment.** At a minimum you'll need a circular saw & carbide blade, a router & correct bits, matching adhesive & dispenser (if gluing), sink (optional), straight edge, and random orbit sander & discs.

**3) Planning and templating.** Save yourself time and headaches with some simple planning by creating a well-thought out design, strategically placing any seams, and building a template for peace of mind for odd angles and uneven walls.

**4) Make the cuts.** Cuts can be made by several different methods using a circular saw and/or router with the proper carbide-tipped blades and bits.

**5) Glue it up.** Use color-matched solid surface adhesive and a dispensing gun to glue up all the seams. The magic happens when you sand it down to reveal invisible seams, or darn near close to it depending on the cut and glue color-match.

**6) Edge buildup and shaping.** Because the material glues together seamlessly, edges can be built up as tall and thick as you desire. Once glued-up, then use the router to shape the edge to your liking.

**7) Install your sink (if you have one).** There are several sink-types using various installation techniques. Manufacturers typically offer installation advice, or instructions can be found online (see link below).

**8) Finishing the surface.** Using multiple grits of sandpaper and a random orbit sander, one can achieve one of several finishes, including matte and semi-gloss, both being the most common, as well as glossy.

**9) Installation.** With a little cabinet preparation, several daubs of silicone, and some muscle, the countertops should drop right into place and all your planning will have paid off.

**10) Get cookin'!** Congrats, it's time to invite your friends and family over to show them what an incredible job you did, and how much money you saved doing it!

For even greater detailed instructions, as well as sources for material and tooling, be sure to visit the "Solid Surface 101" guide at [solidsurface.com/solidsurface101](http://solidsurface.com/solidsurface101).







Here an installer notched a cabinet base for a countertop support.



A number of metal supports are available for different applications.



This support extends inside and outside the kitchen island's cabinet base



Granite countertops that have an overhang will need a countertop support to carry its weight from below.

For the first time homeowner and the venerable household handyman, there is no better resource. Learn how to prepare for unwelcome surprises as well as how to handle them when they inevitably happen.

**ORDER YOUR COPY TODAY**

Order online at **Amazon.com**, **Walmart.com**, **Target.com** or pick up a copy at **Barnes & Noble**, **Books-A-Million**, **Lowe's Home Improvement Stores** and many other fine book retailers.

# PREVIEW OF THE INTERNATIONAL BUILDERS' SHOW

**T**he largest convention in the world of homebuilding is the International Builders' Show, to be held this January 10-12 in Orlando, Florida. Every year the event attracts more than 60,000 visitors from 100 countries. IBS brings together the industry's most important global manufacturers and suppliers and showcases the latest products, materials and technologies involved in all types of buildings—including wood, concrete, stone and brick.

*Extreme How-To* offers this brief preview to highlight some of the products that will be exhibited at the show. For more information on the convention or to register for attendance, visit [www.buildersshow.com](http://www.buildersshow.com).

## **FONTANOT STAIRCASES**

Made in Italy with over 50 years of history, Fontanot is a leader in the production of made-to-measure staircases. The company's LaFont Essential staircase begins with specific customer requests and passes through several phases of refinement to create an "industrial" product in terms of quality, fabrication accuracy and sales service. To complement the staircase, Fontanot expresses the "essential visible to the naked eye" in the railing model named Glass (shown on the cover of this issue). It is the ideal railing to accompany a balustrade next to the LaFont Essential 090 A staircase. Railing Glass is available in two versions: Glass In, completely recessed into the flooring and Glass On with an aluminum casing above the flooring level. Both models are available with clear or extra-clear glass, both with two different kinds of edge finish. An anodized aluminum border can be applied to the upper edge of the glass to protect it from humidity, potential impacts and external agents.

Another prominent model is *Techne*, manufactured in technopolymer, a material never used before in the staircase industry that enhances the lightness of the shapes while guaranteeing strength. Its regular and perfect geometry projects a dreamlike dimension to its surroundings where color, shape and material become a unique expressive language. Available in white, this model is perfect both for indoor and outdoor use, thanks to its particular process of coloration directly in the mix that makes it resistant to UV rays and to atmospheric agents.

For DIY enthusiasts, *Oak 70.Xtra* is a spiral staircase kit of great elegance. It is made in varnished steel with solid oak treads. The handrail is in PVC with an aluminum core. The railing is composed of vertical spindles in varnished steel and horizontal tubes. The landing, which can be cut during installation, can assume three different shapes (square, mezzanine or circular), allowing the staircase to be installed in three different openings.







*The staircase shown is the Fontanot Oak 70.Xtra model suited for DIY enthusiasts.*

# PREVIEW OF THE INTERNATIONAL BUILDERS' SHOW

The sense of rotation (clockwise or counter-clockwise) can also be decided during the installation.

The Fontanot Magia60 staircase, is perfect for outdoor use because its powder-coat finish is strongly resistant to oxidation caused by the outdoor elements. The railing is composed of vertical spindles in varnished steel and a black PVC handrail, and the direction of rotation (clockwise or counter-clockwise) can be adjusted during installation. Visit booth S647 or [arkestairs.com](http://arkestairs.com).

## DAVINCI ROOFSCAPES ECOBLEND

DaVinci EcoBlend polymer slate and shake roofing is available in six colors that meet Title 24 requirements for California. These tiles reflect heat and emit the sun's energy back into the atmosphere instead of into a structure, thus helping to reduce the cooling load of the home, which helps increase the energy efficiency of the building. New colors include Tahoe-EcoBlend, Mountain-EcoBlend, Brownstone-EcoBlend and Slate Gray-EcoBlend. Additional colors (that meet ENERGY STAR requirements) include Weathered Gray-EcoBlend and Castle Gray-EcoBlend. Visit booth W6871 or [davinciroofscapes.com](http://davinciroofscapes.com).



## HAAS DOOR AMERICAN TRADITIONS SERIES

A first-time IBS exhibitor, Haas Door will showcase American Traditions Series garage doors in 13 solid color options plus two wood-grain base options. Each door features handcrafted quality and a rich, traditional carriage house style without the maintenance hassles of wood. The 2-in. thick steel garage doors feature CFC-free polyurethane insulation with a calculated R value of 13.45. Overlay boards add distinction and the traditional carriage house look. Models are available as single or double doors, with solid top section designs or several window options. Visit booth S1078 or [www.HaasDoor.com](http://www.HaasDoor.com).



## WEYERHAEUSER EDGE GOLD PANELS

Manufactured with a proprietary edge seal, Weyerhaeuser Edge Gold panels stand up to the elements. With a uniform appearance and tight thickness tolerances, Edge Gold panels come with a fastener marking system stamped on each panel to aid in fastener placement. Placed 12 inches apart, the dashed lines are spaced to accommodate support spacing of 16-, 19.2- and 24-in.

on center. Each panel features the unique Down Pore technology that helps provide subfloor drainage. The unique notch and groove system efficiently channels water away from the edge of the panel and away from the supporting member. The result is that standing water collected on the surface of the floor during construction drains away. Visit booth W4013 or [www.woodbywy.com](http://www.woodbywy.com).

## MURO

Muro provides great solutions for driving screws to help you save time, energy and effort on every job all while completely eliminating





DaVinci roofing tiles have all the appearance and beauty of natural slate or shake, but with a higher level of durability from the proprietary-engineered polymer roofing formula. The tiles are designed for easy installation, while protecting against the elements for decades to come. DaVinci offers the discerning homeowner a level of style and beauty previously unattainable, backed by a lifetime limited warranty and made in the United States.



CLASS A Fire Rating

CLASS 4 Impact Rating

50-YEAR WARRANTY

SLATE & SHAKE STYLES  
to choose from in a wide  
variety of color blends

VIRTUALLY  
MAINTENANCE FREE

The Art & Science of Lasting Beauty

[www.davinciroofscapes.com](http://www.davinciroofscapes.com)



# PREVIEW OF THE INTERNATIONAL BUILDERS' SHOW



those hated sore backs and knees normally associated with these tasks. Whatever your job involves—subfloor, drywall, roofing, decking or dock building—Muro has a system for you. Muro fasteners are available for these and other specialty applications including wood to steel or aluminum and exotic hardwoods with no pre-drilling required on any job. Muro tools boast 150 screws per coil (highest payload in the industry) and have a telescopic handle that adjusts to your specific working height, which are key features that no one else offers. Visit booth W6682 or [www.muro.com](http://www.muro.com).

## AIRSHIM INFLATABLE PRY BAR AND LEVELING TOOL

The AirShim is a contractor-grade inflatable air wedge that anyone can use to install and level everything from windows,

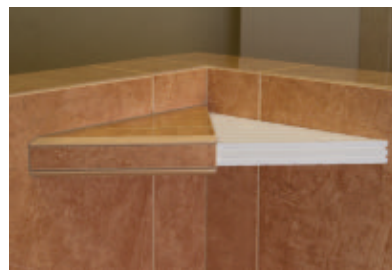
doors and cabinets to appliances, furniture and countertops. It replaces damaging pry bars and wooden shims and allows a single installer to position and hold items in place, saving time and reducing costs by providing a much-needed "extra hand." The AirShim is soft so it won't scratch surfaces, yet powerful enough to raise and hold up to 300 pounds. Professional installers of large, hard-to-level objects who want a faster, more controllable lifting and adjusting alternative to pry bars and wooden shims use the AirShim because it allows a single worker to position and hold items in place. Unlike traditional wooden shims, wedges and pry bars, the AirShim can be adjusted with precision. And, by using



multiple AirShims below, above, left and right of heavy objects, you can fine-tune their positioning with easy adjustments from all four sides. Visit booth S540 or [www.calculated.com](http://www.calculated.com).

## GOOF PROOF CORNER SHELF

The Goof Proof Tile Ready Corner Shelf is so easy to install even a 6-year-old can do it. Made



of sturdy PVC and a patented Retro Shelf Mounting System, this shelf can be installed in less than 5 minutes. Install and tile with your choice of coverings; porcelain and ceramic tile, stone, granite, slate or any other durable water-tolerant material. It is eye-pleasing, functional and sturdy enough to hold up to 100 lbs. The Goof Proof Tile Ready Corner Shelf comes complete with a template, including adhesive stickers, mounting rails, tile-ready shelf and silicone adhesive. Visit booth S1037 or [www.markeindustries.com](http://www.markeindustries.com).

## KITCHENAID LARGE CAPACITY REFRIGERATOR

Whirlpool has a new Kitchenaid three-door freestanding refrigerator that is the largest capacity refrigerator in its class. Available in three models, the





72-in. Counter-Depth French Door Bottom Mount Refrigerator features a slide-away split shelf that allows three quarters of the shelf to retract to accommodate taller items, up to 16.75 inches. It also includes the first ever self-close freezer drawer in its class. Additional internal features on select models include an under-shelf prep zone with removable oven-safe pan, ideal for setting dough or marinating meats. A Platinum interior design with premium wood accents is stain-resistant and helps mask dirt. To help keep produce at its peak of freshness, the full extension self-close FreshSeal crisper drawers maintain optimal humidity levels, with brightly lit drawers that open fully for easy viewing and access to all items within. In addition, a temperature controlled pantry features four pre-sets for customizing temperature for meat and fish, cold drinks, deli items and wine. Visit booth P4 or [www.insideadvantage.com](http://www.insideadvantage.com).

## SASHCO SEALANTS

Since 1936, Sashco Sealants has been making high-performance, high-quality caulking that works right the first time, every time. Sashco is well known for manufacturing Lexel and Big Stretch. Lexel is a multipurpose, all-weather flexible sealant that comes in Crystal Clear and Bright White, in both 10.5-oz cartridges and 5-oz. squeeze tubes. For windows, doors, siding and molding, Big Stretch is an amazingly elastic sealant that comes in 12 colors plus clear.

Other Sashco products include Through the Roof!, an all-weather sealant for roofs, vents, gutters, flashing and more. Mor-Flexx is caulking textured to look like

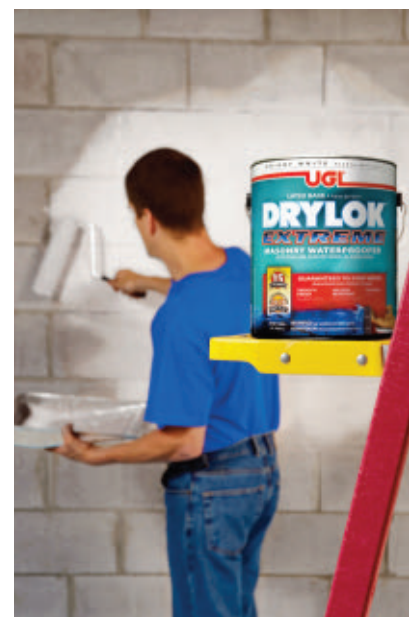
mortar, available in beige and gray, to fix mortar, stucco and stone. Slab is textured caulking to blend-in with concrete. Sashco's eXactcolor tintable caulk allows you to add your color choice of paint or latex stain to achieve any color caulking. And MildewFree is the only caulking with a labor-included replacement guarantee, available in White or Almond, in 10.5-oz cartridges or 6-oz. squeeze tubes.

All Sashco products are paintable, elastic, freeze-thaw stable and backed by a limited lifetime warranty. Visit booth W5493 or [sashco.com](http://sashco.com).

## DRYLOK WATERPROOFER

You want to make sure to use the best products for the job at hand. While the best precautions can be taken to guarantee that a foundation will hold up for the lifetime of a home, sealing a foundation is one of the most important aspects of keeping it functional over the long haul, and DryLok Masonry Waterproofer

has you covered. Negative or Positive side waterproofing for basements and foundations is the company specialty, offering products to complete the entire project (prepare, patch and waterproof). See how UGL products can solve problems and get contractors repeat business. Visit booth S133 or [www.ugl.com](http://www.ugl.com).



# PREVIEW OF THE INTERNATIONAL BUILDERS' SHOW



## SOIL RETENTION SYSTEMS

Soil Retention of San Diego County will exhibit what the company hails as the strongest Mechanically Stabilized Earth (MSE) retaining wall block system in the industry, Verdura. The name Verdura comes from VERdant (green with vegetation) combined with DURAbility. The product offers the opportunity to create "living walls," providing the strength and function of a standard retaining wall plus the added ability to sustain live plantings.

Soil Retention also offers a second "plantable" concrete system, Enviroflex, a tapered interlocking articulating concrete block (ACB) revetment system designed for erosion control in areas with high-velocity flows that are subject to scour. Enviroflex offers a cost-effective and environmentally friendly alternative to rip-rap, gabion mattresses, solid concrete or asphalt linings, and other hard armor systems.

The most recent product developed by Soil Retention is Drivable Grass, which is a permeable, flexible and plantable concrete pavement system that is environmentally

friendly and a beautiful alternative to poured concrete and asphalt. Drivable Grass can be used for a wide variety of applications including driveways, parking areas, fire lanes, pathways, access roads, stream bank installation, bioswales, ditches, RV and boat storage, golf cart paths and more. Visit [www.soilretention.com](http://www.soilretention.com) or booth S1145.

## STEGO MOISTURE CONTROL

Stego Industries is the leader in below-slab vapor protection in North America, specializing in moisture protection and control

for the sixth side of the building: the foundation, concrete slab and crawl space. Moisture-related flooring failures, indoor air quality issues, and lost energy efficiency cost the construction industry billions of dollars each year. Stego Wrap Vapor Barrier, StegoCrawl Wrap, and Pango Wrap Termite/Vapor Barrier help protect those homes and work spaces. Along with engineered membranes, the company has a full line of accessories to complete a comprehensive and successful installation. Stego Industries has also implemented a Carbon Footprint Project, which is a pledge to eliminate the carbon emissions of their business operations. Currently Stego operates from a 100-percent solar headquarters in San Clemente, CA. Visit booth S1014 [www.stegoindustries.com](http://www.stegoindustries.com).

## IMPRESSION RAIL FROM AZEK AND TIMBERTECH

Following the successful launch of their Impression Rail in 2015, AZEK and TimberTech recently launched a new textured Bronze color option, which creates a striking appearance when paired with their broad palette of deck colors. The Impression Rail stands out in







# Grizzly Industrial

**PURVEYORS OF FINE MACHINERY®, SINCE 1983!**

- ALMOST A MILLION SQUARE FEET PACKED TO THE RAFTERS WITH MACHINERY & TOOLS
- 2 OVERSEAS QUALITY CONTROL OFFICES STAFFED WITH QUALIFIED GRIZZLY ENGINEERS
- HUGE PARTS FACILITY WITH OVER 1 MILLION PARTS IN STOCK AT ALL TIMES
- TRAINED SERVICE TECHNICIANS AT BOTH LOCATIONS • MOST ORDERS SHIP THE SAME DAY

## 10" Wet Sharpening System - 110 RPM Grinder Kit - 30<sup>th</sup> Anniversary Edition

Sharpen just about any cutting tool to a razor sharp edge in no time at all. Designed in Germany, this 110 RPM wet grinder with leather stropping wheel is so versatile and simple to use, you'll wonder why you ever put up with dull edges before. The durable 2" wide grinding wheel runs in a water bath to keep tools cool while sharpening and the leather stropping wheel hones to a final razor edge. Start sharpening right out of the box, or add the optional accessories for even greater sharpening versatility. Ideal for wood turners, woodworkers, and knife makers.



### SPECIFICATIONS:

- Motor: ¼ HP, 110V
- 110 RPM wheel speed
- 220-Grit grinding wheel is specially made for wet grinding
- Grinding wheel measures: 250mm diameter x 50mm wide x 12mm bore
- Water bath keeps tools cool while sharpening
- Leather stropping wheel size: 200mm diameter x 30mm wide
- Includes a straightedge sharpening jig, angle guide, and polishing/honing paste
- Approximate shipping weight: 42 lbs.



**PRESIDENT'S SPECIAL**

Includes  
T20880  
Straightedge  
Sharpening Jig!

### OPTIONAL ACCESSORIES

|        |                             |                    |
|--------|-----------------------------|--------------------|
| T20683 | Replacement Grinding Wheel  | \$54 <sup>95</sup> |
| T20684 | Replacement Stropping Wheel | \$29 <sup>95</sup> |
| T26668 | Replacement Stropping Wheel | \$34 <sup>95</sup> |
| T24648 | Leather Honing Wheel        | \$69 <sup>95</sup> |
| T23428 | Honing Paste                | \$6 <sup>95</sup>  |



Model T10010ANV REG. ~~\$200<sup>00</sup>~~ **SALE \$149<sup>95</sup>**

## 12-Pc. Glass/Granite Drilling Set

- Ideal for glass mirror, granite tile and granite countertop installations
- Powerful dual suction cups ensure drill guide remains stationary
- Adjustable guide for different bit sizes
- Diamond-core drill bits
- Bit sizes: 3/16", 1/4", 5/16", 3/8", 1/2", 3/4", 7/8", 1", 1 1/8", 1 1/4", and 1 3/8"

**PRESIDENT'S SPECIAL**



Drill not included

Model T10538 REG. ~~\$110<sup>00</sup>~~ **SALE \$79<sup>95</sup>**

## 7-Pc. Glass/Granite Drilling Set

- Ideal for glass mirror, granite tile, and granite countertop installations
- Powerful suction cup ensures drill guide remains stationary
- Diamond-core drill bits
- Bit sizes: 3/16", 1/4", 5/16", 3/8", 1/2", and 3/4"

**PRESIDENT'S SPECIAL**



Model T10537 REG. ~~\$49<sup>95</sup>~~ **SALE \$29<sup>95</sup>**

**PRICING CODE**  
**17EXTREME**  
MENTION THIS CODE  
WHEN PLACING YOUR ORDER  
18306R

**1-800-523-4777**

**grizzly.com**

TECHNICAL SERVICE: 570-546-9663 • FAX: 800-438-5901

2 GREAT SHOWROOMS!

BELLINGHAM, WA • SPRINGFIELD, MO

SCAN QR CODE  
TO VIEW  
VIDEO LIBRARY





# PREVIEW OF THE INTERNATIONAL BUILDERS' SHOW



the market with its easy installation, up to 30 percent faster than other aluminum rail systems. Its lightweight profile saves time and labor on the job site and eliminates the need for welding equipment. The low-maintenance, high-quality, powder-coated aluminum profiles are engineered for strength, security and aesthetics. Visit booth W6371 or [www.timbertech.com](http://www.timbertech.com).

## TJERNLUND DRYER DUCT BOOSTER

Tjernlund's Model LB2 no-clog Dryer Duct Booster is listed to the

updated DEDPV (Dryer Exhaust Duct Power Ventilator) supplement to UL705. The 2015 IRC restricts use of dryer booster fans to those tested to the DEDPV supplement. Duct runs often exceed 25 equivalent feet (each elbow equates to five additional feet of duct length) that many manufacturers set as a maximum duct length. The LB2 booster fan is rated for duct lengths up to 150 equivalent feet, which reduces drying times by up to 60 percent. The booster fan attaches easily to 4-in. rigid or flex duct and plugs into an electrical outlet. An LED indicator panel mounted near the dryer displays operational status and faults. It communicates via a factory-connected low-voltage cable to an on-board booster fan control. The control stops booster fan operation if duct temperature exceeds 165 °F or signals if the duct becomes blocked. Beyond the DEDPV-compliant control system, the heart of the LB2's effectiveness is the exclusive no-clog, lint-handling blower design that eliminates the need for regular cleaning of lint from the housing and blower wheel. Visit [www.tjernlund.com](http://www.tjernlund.com) or booth S444.



## MAZE NAILS

Maze manufactures quality double hot-dipped nails for fiber cement siding, cedar and redwood siding, roofing, cedar shakes and shingles, PVC trim products, decking, fencing and post frame building construction. The Maze Double



Hot Dipped Galvanized Ring-shank Roofing Nails are Miami Dade County Approved. All Maze Nails are 100-percent Made in the USA from recycled re-melted steel, making them eco-friendly for sustainable building practices. Visit [www.mazenails.com](http://www.mazenails.com) or booth W6193.

## PAINT SHIELD FROM SHERWIN WILLIAMS

Paint Shield is the only EPA-registered paint that kills greater than 99.9 percent of Staph (Staphylococcus aureus), MRSA, E. coli, VRE, and Enterobacter aerogenes within two hours of exposure on a painted surface. Paint Shield continues to kill 90 percent of bacteria even after repeated contamination, for up to four years when the integrity of the surface is maintained. Featuring quality coating performance, great hide and durability, Paint Shield can be applied on interior hard, non-porous ceilings, walls, doors and trim. It is ideal for a variety of settings from health-care, education and hospitality





to residential housing and more. Visit [SWPaintShield.com](http://SWPaintShield.com) or booth W3428.

## LUMBER LIQUIDATORS

Lumber Liquidators is North America's largest specialty retailer of top-quality hardwood flooring, offering expert service and project support from start to finish. Topped with industry-leading finishes, Lumber Liquidators floors are not only beautiful, they're durable too. Bellawood prefinished hardwood features industry-leading scratch resistance and one of

the most durable flooring finishes in the world. The company offers the best selection of flooring in the latest styles and the hottest trends. Choose from domestic and exotic hardwood, bamboo, vinyl plank, North American and European laminate, wood-look tile and more. Visit [lumberliquidators.com](http://lumberliquidators.com) or booth W4783.

## ADD-A-HANDLE

Add-a-Handle to it all; the uses are endless. Proudly made in the USA and assembled by veterans, this simple tool offers you safety and stability in the most uncomfortable situations. It also offers a practical and portable way to hang things where you wouldn't normally, like while in the woods or in a Wrangler. The ergonomic handle



design and custom adjustable Velcro brand straps allow you to carry, hook and hold up to 30 lbs. with ease and comfort. Designed with the painter in mind, it offers a convenient magnet on top to hold a paint brush or flashlight. Although Add-a-Handle comes with 19-in. straps, additional lengths are also available, and the straps interlock for a custom fit. Visit booth S2894 or [add-a-handle.com](http://add-a-handle.com).

## QUALITY WOOD DOORS FROM NICK'S BUILDING SUPPLY

Nick's Building Supply is a manufacturer of high-end wooden doors. In business for over 30 years, the company has the knowledge and quality to deliver a superior product for new construction or remodeling jobs. They're one of the few companies that are able to assemble door configurations with our stock products to almost any sized opening and still deliver within a reasonable time. Choose from Interior doors, Exterior doors, Overhead Garage Doors and Hurricane Wind Load Rated Doors certified for near coastal areas. Visit booth S3223 or [www.nicksbuilding.com](http://www.nicksbuilding.com).



# PREVIEW OF THE INTERNATIONAL BUILDERS' SHOW



## OLDCASTLE HARDSCAPE AND CONCRETE PRODUCTS

Oldcastle is North America's leading supplier of concrete masonry and hardscape products for the building and landscaping industry. The company's Belgard hardscape line includes concrete and porcelain pavers, retaining walls, as well as outdoor fireplaces and kitchens. Oldcastle is also the parent company of Sakrete, a leader in premixed bagged concrete and concrete-related products. Sakrete has been the choice for contractors and do-it-yourselfers longer than any other brand in the market, offering innovative and readily available concrete mixes, mortars, stucco and repair products. Visit [www.oldcastle.com](http://www.oldcastle.com) or booth S3031.

## HIDDEN FASTENERS FROM SURE DRIVE USA

Sure Drive USA, a division of Pan American Screw, is one of the leading manufacturers of construction fasteners and hidden deck-fastening systems in North America. The company offers the Mantis Clip and Coyote Clip for grooved composite and hardwood decking, the Hidden Link for solid



edge composites, and ShadoeTrack which will work on all types of decking including pressure-treated. The popular Mantis clips can be installed manually or with Sure Drive's new pneumatic installation tool made exclusively by Senco. This tool features the patented EZ Slide attachment that ensures ease of installation and a precise fit every time. Mantis clips are available to fit a wide variety of



grooved boards and are approved for use with popular deck boards such as MoistureShield, ChoiceDek, Gossen and Trex. Sure Drive USA will be demonstrating all of these Made-in-the-USA hidden deck fasteners at the International Builders Show. Stop by booth W6090 and mention this article to receive a free gift. Visit [www.suredrive.com](http://www.suredrive.com).

## DECKWISE WISEWRAP

Preventing and stopping wood rot is one of the most important aspects to consider when building a long-lasting deck. DeckWise now offers two brand new solutions with the WiseWrap line of polyethylene waterproof wood flashing tape rolls. Both products are a self-sealing rubberized peel-and-stick adhesive which prevents wood moisture damage and also self-seals around fasteners. WiseWrap JoistTape creates a



waterproof seal when applied to the top of deck joists. When JoistTape is placed between treated (or hardwood) lumber and decking, it prevents water from gathering and stops rot. Use on pressure-treated joists or metal joist framing to create a physical barrier that prevents the corrosion of the metal surface caused by contact with the chemicals and oils in lumber. JoistTape also acts as a noise reducer towards future squeaky deck boards. WiseWrap LedgerTape, available in a 12"x





25' roll, is a flexible polyethylene waterproof ledger board flashing made of the same self-sealing rubberized adhesive material—

only wider. Apply it as flashing to protect against water damage on ledger boards from siding runoff and the elements. Wrap in-ground wooden deck posts to provide a barrier against fungi and soil moisture, as well as around fence posts and mail boxes or any type of wooden post set in the ground or in concrete. Visit [www.DeckWise.com](http://www.DeckWise.com) or booth W6587.

### FEENEY RAILING STYLES

Enhance your railing and your view with Feeney's slender CableRail stainless steel assemblies, the perfect railing infill alternative to pickets and glass panels. They're made from beautiful yet weather-tough 316-grade stainless steel with an assortment of Quick-Connect cable fittings that can be attached to wood, metal or composite-sleeved posts.

The assemblies are strong, durable, easy to install, low-maintenance and virtually invisible. Easy on both the eyes and the view, they're an ideal complement to any railing design, indoors or out.

Feeney's DesignRail aluminum railings and railing kits provide the durability of aluminum in an engineered system that ensures lasting beauty, structural integrity, affordability and very low maintenance. They're made from high-strength 6000-series aluminum extrusions that can be quickly cut and assembled on site using components that snap and screw together. Select from a variety of top rail designs, mounting styles, infill options, color finishes and LED post and rail lights to create a customized railing that's ideal for your project. Visit [www.feeneyinc.com](http://www.feeneyinc.com) or booth S2931. **EHT**



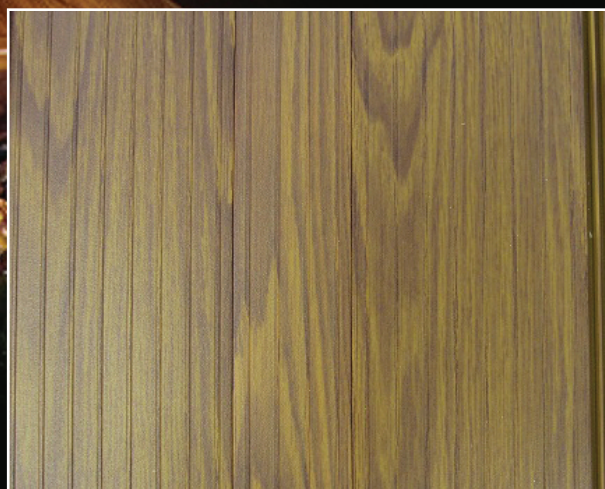




# ***LAST DECK INTRODUCES NEW SERIES 300 DECKING***

- NEW FUNCTION • WATER TIGHT • NO WARPING • NO SPLITTING
- NO ROTTING • NO MOLD • PATENT PENDING • FIRE PROOF!





[information@lastdeck.com](mailto:information@lastdeck.com)

toll free: 866-527-8332

[www.lastdeck.com](http://www.lastdeck.com)



***Wood in  
the shower  
instead of tile.  
We show  
you how.***



# SHOWER POWER:

## *BUILD A **WOOD** SHOWER SURROUND*

By Mark Clement

---

I'm not sure where I got the idea, but a wood-paneled shower has been on my man cave to-do list for some time. I mean, why not, right? Every other photo in my Facebook feed seems to be of some timber-rustic-throwback-pallet-inspired this or that. The problem is that we only love the pictures and then we go to the knockdown furniture store and buy whatever we can easily slap together. Not this time; once I got inspired, there was no turning back.

This basement shower started with the concrete curb I poured myself, integrating it with the existing floor slab. You can buy a shower pan, but the essential nature of this shower is a zero-clearance, nothing-with-caulk-to-clean man cave integration of awesomeness. Simply the absence of something that needs cleaning gives me the peace and serenity I hear so much about in home-improvement media (mostly what I call "ohmygod" makeover shows targeted primarily to women). I think that's an element we overlook in designing for men. It's not about another bauble or element or color, or

even shelf for memorabilia or bigger TV. It's about the absence of crap; about the individual elements being so well built and proportioned—and useful—they don't need makeup.



The wood shower began with the concrete curb poured into a form on the basement slab.



The curb directs all the shower water away from basement walls and toward the drain.



After the shower area is framed with wood studs and insulated, roofing membrane is installed at the corners.

Anyway, back to the curb. How you do it varies by project because the concrete and shower base is determined by your plumbing. If you're not breaking the slab like I had to do, you may need to create a step into the shower so you can pitch the floor toward the drain. You may also be able to grind the floor, exposing the aggregate (also creating a metric ton of dust). No matter which way you slice it, the water needs to go somewhere. Drains are preferable.

I formed the shower curb with a slight pitch, so the top of it was tucked under the wall cladding but the bottom is flush with the bottom of the cladding. Functional? Sure. Proportionate: Yup. I gave the concrete a few days to set up before I touched it again.

## FRAMING

Framing is pretty typical. I placed studs in the corners and evenly spaced between the corners (16 in. on-center doesn't apply here).

Since the main showerhead is Kohler's 12x12, ceiling-mounted ShowerTile, I left room for the plumbing to get up the wall and into the ceiling. For the wall-mounted Kohler hand-shower, there was no need for the blocking typically required for drywall or cement board showers because I could screw right to the wall.

I did have to work around venting from a nearby effluent pump and the electronic control for the showerheads. (Note: Electronic controls offer another slice of heaven, by the way. No waiting for water to heat up and it's digital; 107-degrees is a nice temp for shower power).

I installed horizontal blocking for sufficient nailing of the wood planks. And, I was extra careful to get everything as plumb as possible so all my corners would be nice and straight along the vertical.



If water penetrates the shower corner, the roofing membrane will protect the wall and divert it back onto the shower floor.



# Hi-Velocity Systems™

Small Duct High Velocity Comfort Systems



- Energy Smart Heating/Cooling/IAQ
- Clean Comfortable Air
- Eliminate Hot and Cold Spots
- Attractive Vent Plate Design



- Efficient Installation
- Retrofit older homes with no major remodelling
- Pair with Hi-Velocity Whole Home Air Purification System



Call today to start your design! 1-888-652-2219

**Energy  
Saving**  
PRODUCTS LTD

## WATERPROOFING

I always approach "waterproofing" the same way. Namely, there is really no such thing.

Instead, I make sure water that does eventually get in can then

find a way out. And even though it's dry behind the wall (I left the framing open inside a closet so I could monitor this), there is always some calamity that may ensue, like—and I kid you not—my son fig-

uring out that the faucet can spray really, really far. He thinks this is hilarious.

So the first thing I did was coat the backs of the Yellow Pine 1x4 T&G beaded boards with one coat of Spar urethane. It's enough to keep the back from holding moisture.

Next, I detailed the corners with roofing membrane. Where water

### Your Healthful Home...Our Priority!



#### Mold Detection and Protection





#### 5-Minute Mold Test

- No need for costly inspectors
- Like no other DIY test on the market!
- Detects over 32 unhealthy mold species... including *Stachybotrys chartarum*
- Free professional consultation with positive result



SAFE ON ALL SURFACES





#### Highly Effective Mold Killing Action and Lasting Protection

##### Spray Cleaner

- EPA Registered
- Innovative enzymatic formula
- Independently tested & proven
- Kills in minutes
- Months of lasting protection
- Safe for your family and pets
- Restores indoor air quality
- Anti-allergen
- 100% biodegradable

##### Aerosol Fogger

- Hard to reach places
- No exposure risks
- Ideal for use in attics and crawl spaces
- Safe on all surfaces
- Sprays at any angle

Results in as little as 5 minutes

Visit us at [www.MyHealthfulHome.com](http://www.MyHealthfulHome.com)



A layer of Dam Proofing Membrane (DPM) covers the roofing membrane and framing.



The DPM creates an air gap that facilitates drainage and ventilation of any water vapor that gets behind the shower panels. Any time you install a sheet product, it's important to get the membrane taught and flat, otherwise lumps and bumps and ripples will chase you around. Washer-head screws work better than drywall screws here.



gathers is what I'm most concerned about, so water (in the form of liquid or vapor that condenses and becomes liquid) has an exit. I also wrapped the bottom plate to shed descending and ascending water (yes, it can flow uphill).

I then created a "drainage plane"—an air gap behind the wall cladding through which water can



Corner blocks made of 4/5 boards were installed to begin installation of the wood panels. Get the corner boards as plumb as possible to avoid taper cuts on your wall boards.



A weatherboard sloping towards the drain was installed above the curb to divert water away from the end-grain of the wood shower cladding. Shoot 2-1/2" nails carefully through the weatherboard to hold it fast.

travel and escape. I'd love to say I'm a genius for using the dimpled material that created this gap (dam proofing membrane, DPM), but the truth is I stumbled upon it. I had a roll left from installing my

basement's perimeter drain. It's inexpensive and easy to apply. I held it in place with washer-head Spax screws. Once in, I marked the horizontal blocking with a Sharpie so I could locate it for nailing.



## GOOF PROOF

### Installation System

**Incredibly Simple      Incredibly Strong**

## GOOF PROOF CORNER SHELF

Made of sturdy PVC and patented mounting system (Retro Shelf Mounting System).  
This shelf is installed in less than 5 minutes. The Goof Proof Tile Ready corner shelf comes complete with template, mounting rails, tile ready shelf and all mounting adhesives needed.



Position template



Glue on rails in slots



Silicone back and fill grooves



Firmly attach

## GOOF PROOF SHOWER SEAT

• Easily Adjustable width 24" or 30" • Six pre-drilled Mounting holes • Level vials ensure correct pitch  
 • Full width tile support ledge • Waffle pattern assures optimal tile adhesion



Measure



Fasten



Tile

**Designed for New and Retro Fit/Existing Installations**

Check our website for videos and more information: [www.goofproofshowers.com](http://www.goofproofshowers.com)  
 Mark E Industries, Inc. Toll Free: 1-866-771-9470    [info@markeindustries.com](mailto:info@markeindustries.com)



## WOOD, WOOD AND MORE WOOD

For the shower surround, I used clear 1x4 tongue-and-groove clear Southern Yellow Pine. On one side, it's beaded and V-jointed for use as paneling, and the other is square for use as flooring. I love this stuff. The bead and the V-joint combine to make vertical lines and texture that make the shower space feel taller, and they also team up to channel water down and away from the wall. The tongue-and-groove joints lock it all together so water of any real consequence can't get through.

Most of my anxiety attacks were about the end grain. That's where wood is most absorbent. To keep water away



After coating their backs with Spar urethane, the tongue-and-groove cladding is installed as the shower surround.

## Adding Color to your life can make a real difference!



### Heating for a Cure

Purchase a pink Sentry gas boiler, at no extra cost, and Slant/Fin will donate a portion of the proceeds to Breast Cancer Research and Support Charities!

(S-90 and S-120 available in pink)



www.slantfin.com



America's #1 baseboard brand now enhances any décor!

Shown: Cloud Grey • Shell White • Flat Black  
• Mirror Black Rubbed Bronze • Brite White  
Also available: Almond & Mineral Bronze





# NOT YOUR AVERAGE CABLE RAIL.

Cable railing's popularity is soaring among residential and commercial clients for good reason. These days, many manufacturers are offering some version of this stylistic railing. But what you see in this image is not just your average cable rail.

Unlike most cable railing manufacturers which utilize aluminum structural components, AGS Stainless provides a prefabricated system comprised entirely of stainless steel – from the posts and top rail to the cable and hardware.

The result is one that reflects the intrinsic quality, value and beauty of stainless steel. High-end homes deserve more than just the form and function provided by aluminum railing. Stainless steel's durability is uncompromising and its distinct luster provides a striking visual impact enhancing any setting or décor.

Discriminating homeowners turn to AGS Stainless for custom-designed, prefabricated stainless steel railing systems that they can install themselves.

No, this is not your average cable rail... not even close.

**AGS stainless inc.**  
CLEARVIEW® Railing Systems

**AGSstainless.com/EHT**  
**888-842-9492**

Copyright AGS Stainless, Inc. 2018

No, this is not your average cable rail...  
not even close.



the study by a discrepancy rating (continuous) (Lewin & Lippitt, 1938; Lippitt & Lippitt, 1953) and a discrepancy rating (categorical) (Lewin & Lippitt, 1938; Lippitt & Lippitt, 1953).



from it I used a weatherboard at the bottom. A weatherboard is a horizontal piece, installed at an angle (like a window sill or drip cap). Underneath it I cut a 1/4-in. deep kerf parallel to the

front edge. This is called a "bond break" that causes sticky water molecules to fall apart and fall to the floor instead up wrapping around the weatherboard and leaching up the wall.

Since the weatherboard is also the starter piece for the vertical slats, I made sure to get it nice and level. I pitched it 8-degrees and shot it right to the bottom wall plate.

## WE HAVE THE VERY BEST NOISE REDUCTION, PREMIUM ACOUSTICAL SOUNDPROOFING MATERIALS FOR EVERY KNOWN SITUATION!

### YOUR ONLINE SOUNDPROOFING RESOURCE

- Reduce annoying noise levels at home, shop, office, boats, cars, trucks, planes!
- VERY BEST (And Cheapest) NOISE REDUCTION, Acoustical & Premium Soundproofing Materials
- Large inventory in stock of Sound Control Products
- 10 Years of practical experience in using soundproofing methods

Get the  
**FREE REPORT:**  
**"10 COSTLY  
SOUNDPROOFING  
MISTAKES AND HOW  
TO AVOID THEM"**  
at No Cost —  
Emailed right  
to you!

Visit

[www.soundproofing.org/infopages/aveber](http://www.soundproofing.org/infopages/aveber)  
for your free report!

We'll give you straight talk and sound, practical  
advice about NOISE CONTROL THAT WORKS!

**CALL NOW:**

**Super Soundproofing™**  
The First Online Soundproofing Resource

455 E. Carmel St,  
San Marcos, Ca 92078

[www.soundproofing.org](http://www.soundproofing.org)  
**888-942-7723** 8-5 PDT



Shown here is the completed  
cladding.



You have a number of water-resistant  
finish options for the shower  
panels. The finish shown is called an  
ombre effect, which lets the natural  
feel of the wood ripple through the  
color.





Get creative to put a personal stamp on your project. To make a rugged shower caddy I used CSST (corrugated stainless steel tubing), 4x7 steel striker plates and 3/4-in. threaded couplings. I then used my Bernzomatic butane torch and some solder to cobble together a shower accessory that I'd get thrown out of Bed, Bath and Beyond for even thinking about... Also, take note of the electronic control panel for the shower head.

To get the wall cladding started, I used 1-in. (aka five-quarter, 5/4) corner blocks. The bottom cut is tricky. It's a double miter and it took me a few minutes to wrap my head around it. Because you're putting it in the corner, it has to be triple-mitered to mate up with both angled weatherboards. As I write this, I forget how I did it, but I did. A dab of clear latex caulk (I like DAP Dynaflex 230) where the corner piece hits the weatherboard helps further seal the end grain.

Now the fun stuff: when all the prep becomes pomp and perfection. I rip the groove off the first board on the table saw and install it using both face nails and tongue nails. I cut this to fit tight between floor and ceiling because

you can see the edge. Then I follow up with the next piece, cutting the miter on the bottom to cover the weatherboard and cutting the top about 1/4-in. shy of the ceiling.

Then, just like you would with any T&G project, when you come to an obstruction (the corner blocks here), I rip the back half of the groove off, rip the board to width and install with face nails.

## Come knock on our doors. *and neighbors will admire yours.*

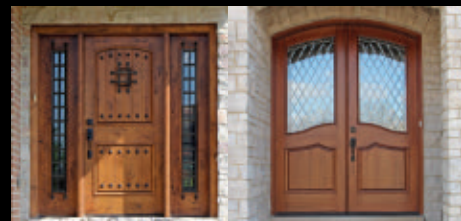


**Our Doors  
are Florida  
Approved for  
Hurricanes**



**Nicksbuilding.com**  
**219-663-2279**

**Nick's Building Supply** has one of the Largest Selections of Real Wood Doors available on the internet today with an emphasis on custom fit door assemblies to fit almost any size opening. Nick's offers a wide variety of Door and Glass Designs from Craftsman and Rustic to Contemporary and Modern and we do it the best for less. Building New or Replacement Doors see the Nick's Building Supply difference.



**Nick's Building Supply, Inc.**

Selling Wood Doors Online at Wholesale  
Prices to the Public since 1999

And—this is an important detail—start the next column with the tongue-piece you ripped off the board before the corner (unless it's really small, like under 3/4-in.).

Carefully cut around penetrations. When in doubt (for me, almost always), make a template, test it out, then transfer your layout to a full piece. Sometimes you can clamp two pieces together

and just drill a hole in them to let the pipe through.

For our Kohler shower control, I installed the bracket and added clear latex caulk to the top and sides to shed water.

To cover the top edge of the wood shower, I ripped a thin batten from a piece of Southern Yellow Pine just thick enough (about 3/8-in.) to butt into the corner blocks flush. A few dabs of clear caulk and some brads hold it in place.

## FINISH

The finish is always what you see and feel. I love a natural wood look, but I also love the way wood feels when it is painted.



A sink vanity and shelving made of reclaimed lumber maintained the rustic decor of the man-cave bathroom.

# HOWARD

## "Restore It - Don't Strip It!"

### What Is Restor-A-Finish?

- A RESTORER with the unique ability to penetrate wood finishes and enhance the luster and depth of grain
- Not a stain - A unique restorer that brings back color to faded finishes
- Not a refinisher - A unique restorer that blends out scratches and blemishes
- Not a stripper - Will not damage or remove original finish
- Not a cover-up - Restor-A-Finish is a permanent solution

**Restor-A-Finish**  
Mahogany

DANGER! FLAMMABLE, HARMFUL OR FATAL IF SWALLOWED. EYE IRRITANT, VAPOR HARMFUL. Read carefully other cautions on side and back panels. NET: 16 FL. OZ. (1 PT.) (473 ml.)

Eliminate water marks, sun fade, oxidation, smoke damage, etc.

Removes white heat rings

Antiques, Cabinets, Desks, Tables, Chairs, Pianos, Paneling, Doors, Banister, etc.

**NEUTRAL**  
For all light wood tones

**MAPLE-PINE**  
For all light brown wood tones

**GOLDEN OAK**  
For all golden brown wood tones

**CHERRY**  
For all light reddish wood tones

**WALNUT**  
For all medium brown wood tones

**MAHOGANY**  
For all dark reddish wood tones

**DARK WALNUT**  
For all medium dark wood tones

**DARK OAK**  
For all dark brown wood tones

**EBONY BROWN**  
For all black brown wood tones

Call Us Toll-Free (800) 266-9545  
Visit [www.HowardProducts.com](http://www.HowardProducts.com)  
To Find a Retailer in Your Area

Find Us on FB and Instagram  
[HowardProductsInc](https://www.facebook.com/HowardProductsInc)





# UltraShield® *Naturale*™ Composite Decking



**Finally, a composite decking that doesn't look like plastic!**

Naturale composite decking by NewTechWood. Same UltraShield technology you trust, with the natural look you want, at a very reasonable price.

Actual production colors may vary from colors shown.

If you have any questions give us a call at 1 866 728 5273

Check out our other colors at [www.homedepot.com/s/newtechwood](http://www.homedepot.com/s/newtechwood)

See the ProDesk for more information

**More saving, More doing**





And I doubly love it when it becomes one of my wife Theresa's rippin' artworks.

She did an ombre effect on this shower, which lets the natural feel of the wood ripple through the color while adding a distinctly masculine, sophisticated look that goes hand-in-(work)-glove with the entire space.

Get creative to put a personal stamp on your project. I made a steel shower caddy and a countertop made of reclaimed lumber to maintain a rugged look throughout the man-cave bathroom. **EHT**

**Editor's Note:** Mark Clement is a carpenter and co-host of the MyFixitUpLife show.



Waterproofing measures are always important in a bathroom, because water problems can come from unexpected places.

## AireShare™ Transfer Fans

Make hot or cold rooms more comfortable  
Extend comfort from ductless heating and cooling

Perfect for homes with:

- Split system, PTAC & window A/C
- Space heaters, stoves, fireplaces
- Equalize temperatures between rooms/levels

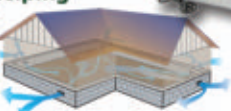
Room-to-Room

Level-to-Level



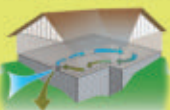
## UnderAire™ Crawl Space Ventilators

Quickly reduces moisture helping to protect both home and occupants



Ventilates excess moisture, the cause of mold, mildew & wood rot. Helps vent radon, treated wood off-gassing and odors that might otherwise migrate into living areas.

## Xchanger™ Improves Indoor Air Quality. Cures Damp-Musty Basements.



2 reversible 90 cfm fans supply air, exhaust or provide a balanced exchange. Magnetic damper stops, dehumidistat & separate on/off switches for each fan included.

Also great for garages, cabins, storage areas & workshops

## Dryer Duct Booster® dramatically reduces drying times, lint build-up & saves energy

**Boosts long or restrictive dryer duct runs**



- ♦ Reduce drying times up to 60%
- ♦ Plug-in, automatic operation
- ♦ 5 year no-clog guarantee & warranty



**Tjernlund Products, Inc.**  
800-255-4208 • [tjernlund.com](http://tjernlund.com)



For More Information



# Screw It!... Like Never Before!



Custom Head Colors Available



Screws driven without pre-drill or other prep.

No Predrilling  
No Wood Splitting  
No Broken Screws

Square & Star Drive Wood Screws



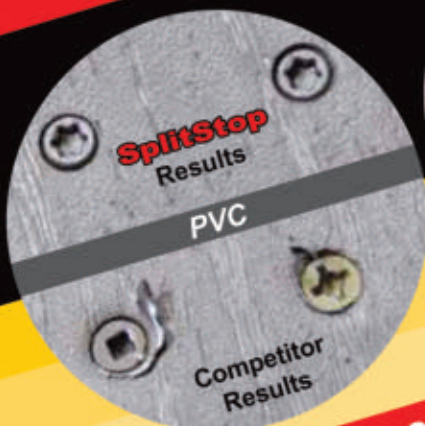
No Predrilling  
No Mushrooming  
No Burrs & Distortion

Star Drive T3 Screws for WPC, Cellular PVC & Capped Composites



No Predrilling  
No Mushrooming  
No Burrs & Distortion

Fascia Screw Installation System



SplitStop Results

PVC

Competitor Results



SplitStop Results

WPC

Competitor Results



Put an End to Call-Backs due to Fascia Problems

Original photo supplied courtesy of TimberTech®



The Industries ONLY Patented Fascia Installation System

Specially designed to mount the Fascia in a manner that will prevent, buckling, "oil-canning" and broken screws.

# SplitStop

HIGH-PERFORMANCE DECK SCREWS

Titan products are protected by US patent numbers:  
5,199,839 - 5,516,248 - 8,430,618 - 8,714,887.

Call 888-578-3273 or visit our website: [SplitStop.com](http://SplitStop.com)  
for more information & free samples.





# A Metal Canvas In The Sky

*How to Repaint a Metal Roof*



**By Clint C. Thomas, Esq. Photography By Sterling Thomas**

**M**etal roofs seem to be in vogue today, and many people mistakenly believe that they are a product of the modern era. Metal roofs, however, pre-date the contemporary asphalt shingle roof by a couple of hundred years. In fact, I've been told that Thomas Jefferson's home, Monticello, still sports its original metal roof. The types of metal roofs that are available today and those that were available during the 1800s and early 1900s have changed dramatically.

Many of us have made reference to an old farm house with a "tin" roof. Ironically, "tin" roofs are not made out of tin. Today metal

roofs often consist of an alloy steel with a zinc coating applied to it for protection, known as galvanized metal. A current alternative trend in roofs is the use of aluminum. Available in a variety of color schemes, aluminum roofs require very little maintenance.

Metal roofs of all kinds have many advantages from being long-lasting to shedding water and snow quicker than an asphalt shingle roof. However, all painted metal roofs have one downside in common, and that is that they have to be repainted periodically.

Before you dive head-long into painting your metal roof you need to determine what type of metal

it is, because although it may appear to be galvanized, it may in fact be what is known as terne metal. Terne roofing was made by producing the shingles or roof panels out of one of several different types of base metal and then coating the panel with a mixture of lead and tin. Terne metal has been phased out due to the public outcry about the dangers of lead, even though no specific health threat was ever discovered coming from the use of terne metal roofs.

Terne metal roofs are extremely long-lasting, but because they look very similar to galvanized metal a person can unknowingly invite problems if they use the wrong



# DRIVABLE GRASS®



**Drivable Grass®** is a **permeable, flexible and plantable concrete pavement system**. The polymer grid embedded in the mats allows them to flex and **conform** to uneven ground surfaces, and makes it a great product for the **DIYer**. It's lattice-style structure makes the product **unique**, and allows **vegetation** to grow right through it, while providing a solid surface comparable to more common paving materials. **Drivable Grass®** can be used with **non-planted infill choices**, such as decomposed granite or artificial turf. It can be used in place of poured concrete, pavers, and asphalt for a wide variety of DIY applications including **driveways, additional parking, boat and RV access, pathways** and **pet digging control**, just to name a few.

Scan the QR code to see how you can transform your lawn into a multi-use area with Drivable Grass®.



## SOIL RETENTION

**Plantable** concrete systems®

[www.soilretention.com](http://www.soilretention.com)

8 0 0 - 3 4 6 - 7 9 9 5





paint. Galvanized roofs require the use of a different paint than what is used on terne metal. Terne is best painted with an oil-based paint. One of my neighbors used an oil-based paint as a primer, since some of the metal was rusted, and then covered the roof with one of the specially formulated roofing paints that is sold by CalBar for use on old metal roofs for an added layer of protection. However, another neighbor did like myself and only used an oil-based paint. Galvanized steel, on-the-other-hand, cannot be painted with an oil-based or aluminum-based paint. Galvanized metal requires either a zinc-dust type paint or a latex paint.



*First step is to scrape away loose paint and rust.*



My house was built circa 1880 and still has its original terne metal roof, which consists of individual metal shingles with an embossed decorative pattern. After many years of exposure to the elements, the paint on the roof began to wear off, crack and peel, necessitating a new paint job.

I began my project by purchasing a couple of ridge-hooks from

*When working on a roof, always wear a fall-restraint safety harness.*

## E-Z GUTTER GUARDS

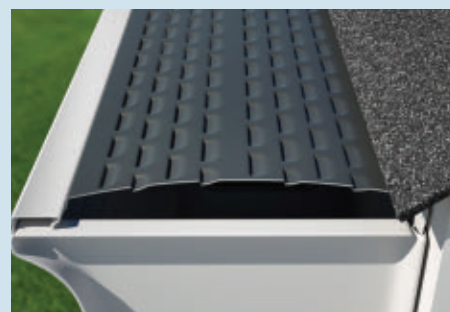
After more than 30 years in the gutter guard design and manufacturing business, E-Z Gutter has developed a series of three distinctly different gutter guards. All three are engineered for fast, simple installation, requiring no fasteners. They are designed to allow rainwater to rush through while keeping debris out of the gutters, and to stay put during rough weather but snap out for maintenance.

E-Z Quick is made of durable, expanded aluminum, with a tight mesh that is engineered to keep debris out while letting rainwater rush through.

E-Z Zip is also a heavy-duty mesh, but made of powder-coated expanded steel.

E-Z Shield, the top of the line, is built from heavy-duty painted aluminum with reverse louvers that allow the maximum amount of water through, while keeping debris out. The black color blends into the roofline and heats up fast in the winter months to melt ice and snow.

Each version installs by placing the back of the screen on the gutter hangers, and pushing the front of screen back and down until it locks into gutter. They are designed for 5-in. gutters. Each section is 4-ft. long and notched for 3/4-in. in overlap. When installed, each box will cover 98.5 ft. Visit [www.e-zgutter.com](http://www.e-zgutter.com).







*The paint scraper has four edges for aggressive scraping action.*

an online supplier of roofing products. When combined with a single section from an aluminum extension ladder, the ridge-hooks made accessing a roof with a steep pitch much easier, and consequently, much safer. I painted the roof using the ladder and ridge-hooks except for one section that could be reached using a 10-foot tall stepladder, which I placed on top of a lower roof section.

It is also imperative that a safety harness and rope be used when working from any height. One misstep and you could easily fall thirty feet to the ground unless you are tied off to something solid. As an added note of caution, metal roofs are slick as glass when they are wet.

Therefore, beware of the morning dew. Long pants and heavy boots with serious traction are also highly recommended. A few hundred dollars spent on safety equipment is cheaper than most medical insurance co-pays.

As with all painting projects, the first step was to remove all of the loose paint. I did this by hand-scraping the roof twice. I considered trying to use a pressure washer but there was no good way to access the entire roof with the wand, and I was also concerned that I might inadvertently catch the edge of a shingle and end up ripping a couple off by accident. Hand-scraping also allowed me to see every inch of the roof and to identify any small holes or



*This terne metal roof had hips and valleys that complicated the project.*

Same Day Shipping on Most Items!

**15**  
Snow  
Guard  
Models



**Adhesive and Mechanical Mounting**  
[MetalRoofSnowGuards.com](http://MetalRoofSnowGuards.com)    Snow Guards



**SnoBar  
ColorBar  
ColorRail  
WindGuard**

**Mounting Options Available For Most Roofs**  
[SnoBarColorBar.com](http://SnoBarColorBar.com)    Year Round Solution

**Get Your Free  
Snow Guard Spacing Layout  
and Coupon Code At**  
[Coupon.SpacingTool.com](http://Coupon.SpacingTool.com)

  
[SPACINGTOOL.COM](http://SpacingTool.com)  
[Coupon.SpacingTool.com](http://Coupon.SpacingTool.com)



**EASY**  
Gutter  
Leaf  
Protection

[LeafBlox.com](http://LeafBlox.com)    Keep Leaves Out Of Gutters

**BREAK**  
Up  
Sliding  
Snow & Ice



[SnowBreaker.com](http://SnowBreaker.com)    Manage Snow Slides

**STOP**  
Chimney &  
Vent Pipe  
Damage



**Mounting Kit Available For Standing Seam Roofs**  
[VentSaver.com](http://VentSaver.com)    Chimney & Vent Protection

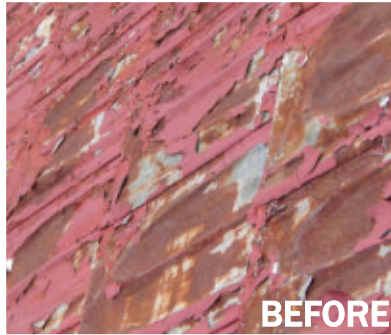
  
**SNOBLOX**  
 SnoBlox-Snojax 671 Willow Street Lemoyne, PA 17043  
 Toll Free: 800-766-5291  
 Phone: 717-737-4398  
[www.SNOBLOX.com](http://www.SNOBLOX.com)

## DO IT YOURSELF

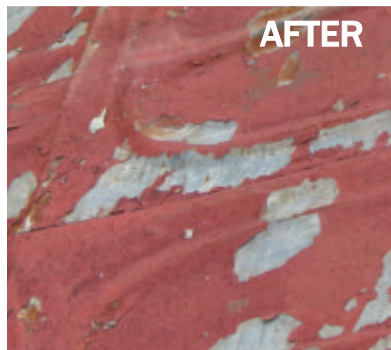
other problem areas that I needed to repair along the way. In some places I would attach my scraper to a five foot extension pole which allowed me to reach some of the awkward parts of the roof.

**Note:** The Lockjaw by Wooster is a wonderful tool. It is a glorified clamp that screws onto an extension pole and can hold everything from a paint scraper to a paintbrush.

I discovered that by starting at the top and scraping downward that the loose paint chips slid down the roof on their own without any help from me. This was due to the steep pitch of the roof mixed with the vibrations created in the metal from the scraping. This helped to reduce my cleanup time considerably.



**BEFORE**



**AFTER**

*Hand-scraping also allows you to see every inch of the roof and to identify any small holes or other problem areas that need to be repaired along the way.*



# Zerust®

Stop Rust Before It Starts

**Keep your tools in top shape with Zerust rust prevention products.**

For the ultimate protection from rust and corrosion, use our:

- Drawer Liners
- Table Saw Covers
- Vapor Capsules



zerustproducts.com
Zerust Consumer Products LLC, Twinsburg, Ohio 44087



Look for us on Facebook:



# DECK2WALL™

spacer

**Do you have an exit strategy?**



**Or do you trap water and debris?**



**Deck2wall Spacers vs. Z-Flashing**

Patented - IAS Accredited Lab Tested

888 577-2237

[www.deck2wallspacer.com](http://www.deck2wallspacer.com)



DIY'ers, Contractors, Parents, Sports Enthusiasts,  
Campers, People with Disabilities & More!

**The  
Perfect  
Practical  
Gift**



## Introducing Add-a-Handle

*The easier way to Carry,  
Hook & Hold a variety of things!*

DIY enthusiast Mike Payne invented  
Add-a-Handle because of hand  
cramps due to Raynaud's Syndrome.  
With design and manufacturing help from his  
daughter, Tara, Add-a-Handle was born.



**So many terrific uses ...**

Find out more about Add-a-Handle and this cool  
father-daughter venture at: [add-a-handle.com](http://add-a-handle.com)

As seen on



### GIVE BACK OFFER:

WE DONATE 20% OF YOUR ORDER  
To Habitat for Humanity of Rockland

Use Code: H4H

[add-a-handle.com/shop/](http://add-a-handle.com/shop/)

Offer Expires: NEVER

**add-a-  
Handle®**



@addahandle



Keep up with our entrepreneurial adventures, AAH Specials,  
Contests, family fun tips & more, sign up for our newsletter at:  
<http://bit.ly/AAHExtreme>



# How Easy Is It To Install These Three Gutter Guards?\*

- ★ All three are engineered for a fast install--no fasteners needed.
- ★ Designed to stay put during rough weather, but snap out for maintenance.
- ★ All will fit 5" gutter and come in 4' sections

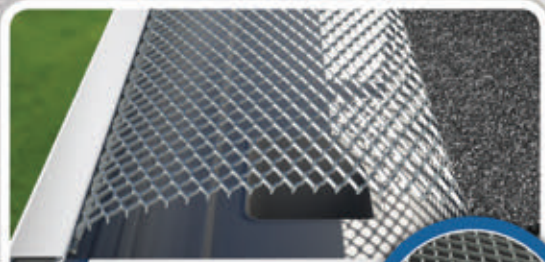
Available At:



*True Value*®



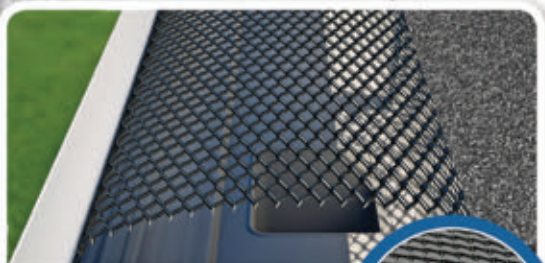
## E-Z-Quick™



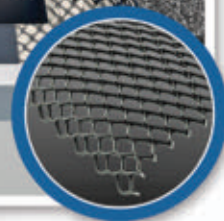
Durable,  
Expanded  
Aluminum  
Won't Rust.



## E-Z-Zip™



Heavy-Duty,  
Powder-Coated  
Expanded Steel



## E-Z-Shield™



Louvered,  
Painted  
Aluminum  
Won't Rust.



[www.e-zgutter.com/retail](http://www.e-zgutter.com/retail)

\*So easy, you'll want to  
cover your entire house.

## DO IT YOURSELF

With the scraping done and the necessary repairs made, I was able to begin painting the roof. I used an 18-ft. extension pole with a 3/4-in. nap roller to apply the paint to the roof.

I found that a 5-gallon plastic bucket with a roll-screen inside of it worked beautifully as a roller pan. I would set it on the bottom rung of my extension ladder and secure it to the ladder with a painter's hook.

I used a paintbrush attached to the end of the extension pole to paint the valleys and the standing seams on the porch roof. Everything else I painted with the roller. I painted one side of the



# SCREW IT!

*Tackle projects with the Construction Industry's premier driving system.*  
***Demand the best.***

**Only Muro's Speed Driver offers:**

- Industrial strength Tool with no awkward attachments.
- No pre-drilling of wood required, even in IPE.
- Tremendous savings on every job.
- Adjustable depth control for repeatable countersinking.
- Drives 1" to 3" screws.
- No more dropped or lost screws.
- Ergonomically friendly - work while standing up. Handle is height adjustable!

***Muro's Speed Driver is an easy to use Auto-Feed Screw Driving System that will complete your dock, flooring, and even roofing projects faster and easier.***

**GET YOUR HANDS ON ONE TODAY!**

**MURO**

muro.com/eht  
1.800.665.6876

 Muro North America



*For both scraping and painting, you can gain greater reach by using the Wooster Lockjaw tool holder mounted to an extension pole.*



*Using a paint grid inside a 5-gallon bucket proved to be the most efficient way to reload the roller when painting the roof.*

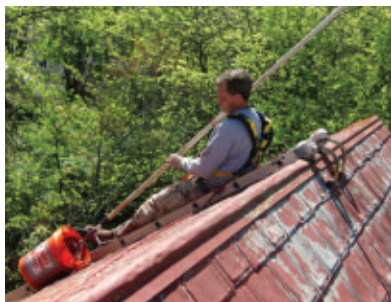


*When possible, paint from a ladder rather than climbing atop the roof.*



roof at a time due to the fact that I would have to wait on the paint to dry, or else I would be putting my ridge-hooks in wet paint to start on the new side.

I applied two heavy coats of



By hooking the paint pail to a ridge-mounted ladder, the extension pole could be easily reloaded for painting.



The roof was painted using an 18' foot extension pole equipped with a 3/4" nap roller.



Shown here is the dramatic difference achieved with a new coat of paint.

paint to the roof and tried to roll each coat from different directions each time. For example, I might start at the front of the house and work to the back on the first coat and, then, for the

second coat start at the back and work forward. This changed the angle of my roller with each coat to ensure full coverage.

On a final note, pick your seasons when doing any kind of roof

## Aerosol Spraying Made Easier and **MORE EFFICIENT!**

**READER TESTED  
AND RECOMMENDED**

**BUY WITH  
TOTAL  
CONFIDENCE**

NRHA  
PACKAGING AND  
MERCHANDISING  
AWARDS  
Silver Award Winner

Spray Paints • Lubricants • Adhesives & More

**Exclusive FullGrip™ Trigger**  
Up to **8x** Easier to Spray  
Professional Results

Easy To Use With Gloves  
Highest Grip Comfort  
Ergonomic Design &  
Arthritis-Friendly™

Easy On & Off  
Reusable

**IMPORTANT: Read  
ALL INSTRUCTIONS  
ON BACK  
BEFORE USE!**

**UNIVERSAL FIT**  
For All Standard  
Spray Cans

**EXCLUSIVE FEATURES:**

- ▶ **FullGrip™ E-Z Pull Trigger**
- ▶ **Up To 8x Easier To Spray\***
- ▶ **Easy To Use With Gloves**
- ▶ **Arthritis-Friendly Ergo Design**
- ▶ **Fits ALL Cans!** ▶ **Reusable**
- ▶ **Made in USA** ▶ **Recycled Plastic**

\* than other products in this category.

cangun1.com

info@safeworld.com

800.743.0115

©2016 SafeWorld™ Int'l, Inc.

U.S. Utility Patent # 8,272,542 &  
U.S. Design Pat. # D592,953



## DO IT YOURSELF

work. I realize that most people paint their houses during the summer months but a metal roof is just too hot to work on, or to even touch, during the summer months. I recommend that you

begin scraping it during the later winter or very early spring and do the painting during the milder spring months while there are still cool mornings and temperate days. **EHT**



**CARGO Max**  
XRT 8-57 Xtreme Rugged Technology With Ultra Body™

Made in U.S.A.

**Perfect for the yard, woods, or freeway**  
Frame and bed will never rust, rot, or need paint - ever!

### LEVEL RAMP MODE



### LIMITED TILT MODE



### DUMP MODE



- Bed is 57" x 92" with an 1800 lb capacity
- Weighs less than 300 lbs
- Protected commercial grade LED lights
- Tailgate removes in seconds with no tools

**Watch the video!**



**Want the best? Go with the FLOE! [floeintl.com](http://floeintl.com)**



The metal roof received two coats of paint, applied from different stroke directions.



Here's the freshly painted roof, successfully achieved by a DIY'er.

## BE CAREFUL WHEN SCRAPING!

If you have a terne metal roof like this one, then it has probably been repainted several times over the years. Although it isn't recommended to use a metal implement to scrape the roof, it was the only way to remove the loose rust and old paint. Be extremely careful not to pierce the metal when scraping. Also, check in advance with your local authorities about any municipal regulations regarding scraping and repainting a metal roof.



# SERIOUS LEAK PREVENTION



MADE IN USA

\*Call Store for Availability

[Perma-Boot.com](http://Perma-Boot.com)



# Install a Whole-House Water Filter



By Merle Henkenius

If your home's drinking water has an unpleasant taste or is occasionally cloudy, an inline water filter is often an easy and inexpensive fix. Private water wells can deliver off-tasting water and waterborne sediment. Accumulating sediment can short-out electric water heaters and reduce the efficiency of gas water heaters.

Although sediment is less of a problem in municipal systems, city water can have an off taste as well. Every town with a population above 100 must meet strict federal water-safety standards, and sometimes the methods used to sanitize municipal water will

give it an unpleasant taste.

Inline filters, used singly or in tandem, can improve both problems and can also be used under sinks for single-fixture protection. The good news is that inline filters are affordable, ranging between \$25 and \$100. Expect to pay more for larger pipe diameters and for built-in shut-off mechanisms, which make changing media cartridges quick and easy. Filter cartridges need to be replaced every couple of months, especially charcoal filters, which can dump impurities in high concentrations when fully saturated.

Here's a quick guide to installing your own inline filter.

## STEP 1: ATTACH THE FILTER

When installing a basic whole-house filter, you'll need to cut out a section of water supply line and splice the new filter between two shut-off valves. If possible, isolate your home's outside



faucets since your lawn and garden won't need filtered water. This will help your filters last longer. The simplest approach is to solder male adapters to two short pieces of copper pipe, then wrap the male threads with Teflon tape and tighten the adapters into the plastic filter head.

## STEP 2: TIGHTEN THE COMPRESSION FITTINGS

Soldering pipes that retain even a little water can be a struggle, so I suggest completing the installation with ball valves fitted with compression fittings. Assemble the filter body and the shut-off valves and tighten the compression nuts until they feel snug. However, be careful not to overtighten to avoid crushing the compression rings. Generally, when you feel first resistance with a wrench, tighten each nut one full turn and walk away.

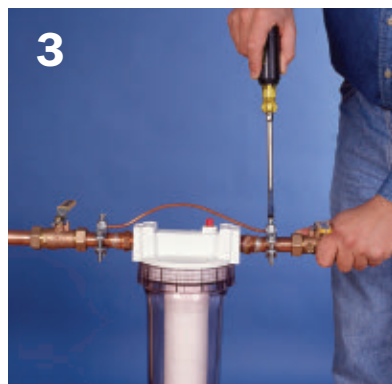




### STEP 3: RESTORE CONDUCTIVITY

You could also choose to use plastic PEX pipe and fittings to make your connections. PEX is now code-approved and doesn't require soldering. But if your piping system is made of copper, brass or steel, plastic can create a significant potential hazard. There's a good chance the electrician who wired your home used that water piping, which continues underground to the street to ground your home's electrical service panel—at least in part. In fact, even our plastic filter housing would sever that connection. To restore conductivity, install a code-approved grounding clamp on each side of the filter and jump the plastic with a short piece of #6 ground wire.

Of course, if at any point you feel yourself getting in over your head, call a licensed plumber.



### A PRIMER ON PRIVATE WATER WELL PURITY

As a rule, deep wells produce the cleanest water while shallow wells produce the best-tasting water. Deep wells are clean because surface water, its source, has to filter through hundreds of feet of permeable rock, sand and gravel to reach its aquifer depth. Contaminants are simply left behind in the grit, but in the process, the water absorbs some of the rock's soluble minerals, and minerals in high saturation taste bad.

Water from a shallow well, on the other hand, won't have percolated through much rock. It won't have a mineral taste, but it may also retain some of its contaminants.

Local health departments require that all new, private-water

wells be tested for contaminants, typically coliform bacteria, nitrates and a few heavy metals. The same goes for older wells put back into service. If your well fails any part of this test, contact a water-treatment specialist. **EHT**

***Editor's Note:** Merle Henkenius is a longtime writer and photographer who specializes in home improvement articles and books. He is a licensed master plumber but has hands-on experience in nearly every phase of construction. He has contributed scores of articles and thousands of photos to national magazines. He also writes for The Home Depot, where you will find a large selection of water filtration systems like the one described in this article.*

**UGL**  
LATEX BASE A base de látex  
**DRYLOK EXTREME**  
MASONRY WATERPROOFER  
IMPERMEABILIZANTE PARA ALBANILERIA

**BEFORE YOU ROCK IT LOK IT!**

Before starting a basement project, get the piece of mind you and your client are looking for by protecting the space against future water problems. **DRYLOK®** Masonry Waterproof is a proven brand for stopping water.

**UGL**

Call 1-800-272-3235 or visit [DRYLOK.com](http://DRYLOK.com) for inspirational photos, how-to videos and brochures.



## CREATIVE LOG LIGHTERS

Cover your gas log lighter valve with this attractive escutcheon, and easily operate your gas logs with just the turn of a key. Custom decorative log lighter covers from Creative Log Lighters are designed for homeowners and businesses looking to add a decorative touch to the traditional chrome log lighter valve. This premier line of decorative log lighter cover products currently offers two designs, the Laguna and the Hermosa design, and comes in five finishes. Colors include Beachnut Bronze, Seaside Silver, Glamour Gold, Newport Copper and Paint Grade White (paintable). Made from injection-molded ABS plastic, the covers mount into place using a patented Velcro application. Designed for use indoors or outdoors, applications include residential and commercial retrofits, new construction, hotels and restaurants. Custom designs are available. Visit [www.creativecleanoutcovers.com](http://www.creativecleanoutcovers.com).

## DECKORATORS DEXERDRY

Deckorators Dexerdry is a simple, easy-to-install weatherproofing system that enables deck builders and homeowners to create dry zones under raised decks and eliminate water issues from ground-level decks. With Dexerdry it is possible to add extra outdoor living space and storage areas, with the confidence that they will not be affected by precipitation from the above deck structure. The proprietary polymer extrusion is uniquely crafted to fit snugly within the slotted edges of Deckorators composite decking, creating a water-tight seal between boards. Low-maintenance Deckorators Dexerdry perfectly complements Deckorators Vault, Heritage, Vista, Classic and Frontier slotted-edge deck boards. Visit [Deckorators.com/GoBeyondOrdinary](http://Deckorators.com/GoBeyondOrdinary).



## MAGNUM SYSTEM 27 LOW-PRESSURE SPRAY FOAM

At 10 to 20 percent the cost of a High Pressure Spray Foam Rig, the Low Pressure Magnum System 27 sold by Energy Efficient Solutions fills a gap where others fall short. Instead of bringing out an entire High Pressure Rig for a bedroom addition or remodel, the System 27 provides a faster, lower cost, and more mobile solution. Not only are the upfront costs 80 to 90 percent lower, but because it is low pressure, the maintenance costs are significantly lower as well; and due to its simplicity, it is easier to use, which results in lower labor costs. Plus, the ability to move each tank with a dolly gives unmatched flexibility, opening up new on-site applications. Visit [www.energyefficientsolutions.com/magnumsprayfoam.asp](http://www.energyefficientsolutions.com/magnumsprayfoam.asp).





ABOVE GROUND TREATED JOISTS AND BEAMS REMAIN  
BUILDING CODE COMPLIANT FOR DECK CONSTRUCTION

# THE BEST CHOICE FOR ABOVE GROUND

-  Wood treated to meet the AWPAs standards is third-party inspected and bears the CheckMark® of Quality on end tags.
-  Viance™ preservatives have been peer-reviewed and are listed in AWPAs Book of Standards and are reaffirmed every five years based on their approved use.
-  Above Ground wood treated to the AWPAs standards remains IRC® and IBC® code compliant while using the appropriate amount of chemicals required to ensure performance.
-  Our Ecolife™ preservative contains a wood stabilizer designed to help treated wood stay straighter, with reduced checking and cracking.
-  We stand behind our Above Ground treated wood with a Lifetime Limited Warranty.\*

\*See Lifetime Limited Warranty for details.

WE'VE ALWAYS BEEN STRAIGHT WITH YOU.



Wood Preservative Systems  
Produced to AWPAs Standards

Visit [treatedwood.com/options](http://treatedwood.com/options) to learn more.

# HOT PRODUCTS



## DIY HOME CENTER

DIYHomeCenter.com is the online shopping destination for your deck and home projects, making it easier than ever to access thousands of products from the most sought-after brands. The company is most known for top quality deck products such as Trex, Deckorators, Azek, TimberTech, Westbury, Feeney, Fortress and Ultra-tec. Building products range from home weatherization by DuPont Tyvek, Grace and Tytar to fasteners by Screw Products, FastenMaster and TigerClaw. Complete your space with some of the best outdoor furniture from Trex or PolyWood. Add LED lighting or

even an Atlantic Water Gardens pond for a tranquil retreat. DIYHomeCenter.com only sources top brands that they proudly stand behind, and every order is shipped to your door—fast. Most orders leave the warehouse the same or very next business day and typically ship free. Visit [www.diyhomecenter.com](http://www.diyhomecenter.com).

## KOBALT XTREME ACCESS SOCKET SETS

Kobalt Xtreme Access ratchets and sockets fit over bolts that extend beyond the height of a normal socket. This specialized design allows threaded rod and long bolts access through the head of the socket and ratchet. Because the socket fits inside the ratchet head, you end up with a profile that is about 50 percent smaller than that of a traditional ratchet and socket combination. And anywhere you encounter longer bolts, or tighter spaces with little clearance for a standard ratchet and socket is ideal for the Xtreme

Access line. The tools are forged from chrome vanadium steel, heat-treated to offer strength and durability, and polished to a full-shine finish that's easy to keep clean. The go-through ratchet boasts a 72-tooth gearing mechanism that delivers a 5-deg. arc swing, a slim-design head and a low-profile forward/reverse switch. Visit [kobalttools.com](http://kobalttools.com).



## MI-T-M INVERTER GENERATOR

Mi-T-M Corporation announces the release of the new 3000 Watt Inverter Generator. Designed with inverter technology, it provides clean and quiet power for job sites as well as camping and recreational activities. Compact and easy to move, this generator features a 212cc Mi-T-M overhead valve engine with low-oil shut-



down and recoil start. Its insulated side panels reduce noise, making it an efficient and cost-effective quiet power source in noise-restricted areas. With 3000 watts of power, use it on jobsites to power your tools and charge your battery packs with the DC/battery charging capabilities. Copper windings and an alternator total harmonic distortion (THD) of less than 3-percent provides power for sensitive electronic equipment such as laptops, sound systems and cellular equipment. Visit [www.mitm.com](http://www.mitm.com).



# Advertisers

Jan/Feb 2017

|                                 |             |                              |      |
|---------------------------------|-------------|------------------------------|------|
| Add-A-Handle.....               | 67          | Oneida Air Systems.....      | 29   |
| AGS Stainless.....              | 55          | PacTool International.....   | 14   |
| Arke.....                       | 11          | Perma-Boot.....              | 73   |
| Armstrong-Clark.....            | 15          | Plan Station.....            | 16   |
| Bigfoot Systems.....            | 8           | Quickscrews.....             | 7    |
| BlueDevil Products.....         | IFC, 1      | SafeWorld International..... | 71   |
| Calculated Industries.....      | 20, 21      | Sakrete.....                 | 80   |
| DaVinci Roofscapes.....         | 37          | Saschco.....                 | BC   |
| Deck2wall Spacer.....           | 66          | Slant/Fin.....               | 54   |
| DIYHomeCenter.com.....          | 17          | Sliding Susan.....           | 30   |
| Energy Saving Products.....     | 51          | SnoBlox-Snojax.....          | 65   |
| EZ Gutter Guard Protection..... | 68, 69      | Soil Retention.....          | 63   |
| Floe International.....         | 72          | SolidSurface.com.....        | 27   |
| Grizzly Industrial.....         | 41          | Star Fasteners Plus.....     | 16   |
| Healthful Home.....             | 52          | Starrett.....                | 10   |
| Howard Products.....            | 58          | Stego Industries.....        | 31   |
| Kaddies.....                    | 18          | Super Soundproofing.....     | 56   |
| King Architectural Metals.....  | 22, 23, IBC | Sure Drive USA.....          | 9    |
| Last Deck.....                  | 46, 47      | TG Tools.....                | 2, 3 |
| Lumber Liquidators.....         | 13          | Titan.....                   | 61   |
| Mark E Industries.....          | 53          | Tjernlund Products.....      | 60   |
| Maze Nails.....                 | 19          | U2 Fasteners.....            | 5    |
| Muro.....                       | 70          | UGL.....                     | 75   |
| NewTechWood.....                | 59          | Viance.....                  | 77   |
| Nick's Building Supply.....     | 57          | Zerust.....                  | 66   |
| O'Berry Enterprises.....        | 14          |                              |      |



# RIP OPEN A BAG OF CONFIDENCE.

*Dirt under your nails. Calloused hands. An eye for craftsmanship.*

Yeah, you're that guy. We knew your dad too. Heck, even your grandpa. Sakrete has been helping professionals pour their hearts into projects large and small for 80 years. Consistently providing top-of-the-line bagged concrete and other quality products has made us the brand professionals trust to turn inspired ideas into jobs well done.



Concrete, Mortar and Stucco Mixes  
Maintenance and Repair Products for Concrete and Asphalt

THE PRO'S CHOICE | [SAKRETE.COM](http://SAKRETE.COM)





Make it personal.

Endless color combinations are possible with our extensive line of Gilders Paste®. Specially designed for metal applications, create a kelaidescope of colors to enjoy for decades.

What will you create today?



**KING ARCHITECTURAL METALS**  
LOS ANGELES   DALLAS   ATLANTA   BALTIMORE

800.542.2379 / KINGMETALS.COM / FACEBOOK / PINTEREST / YOUTUBE



# Does your caulking perform like this?

Extreme Elasticity  
+  
Powerful Adhesion

**= The One & Only**

***Big Stretch.***

***Won't Crack. . . It Just Stretches***

Learn more at: [www.sashco.com/big](http://www.sashco.com/big)



[www.sashco.com](http://www.sashco.com)

Follow Sashcoinc at:

