GUTTER ENTERPRISE

NEW TRADE JOURNAL

April 2020

WATER HARVESTING OR CATCHMENT SYSTEMS: TOO MANY BENEFITS TO IGNORE

INDUSTRY SPOTLIGHT

WATER: THE SINGLE MOST DESTRUCTIVE ELEMENT TO A HOME

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Contents

Features

Departments

Publisher's Note

Welcome Back!

I have to say thank you to several people who made my visit to California memorable. I can honestly say again, I had way TOO much FUN. One main reason I visited the Golden State and traveled from Sacramento, Lodi to Monterey, Thousand Oaks, Laguna Nigel, Newport and San Diego was to see the various water conditions the state was in. The economy of California is the largest in the United States, boasting a $3.0 trillion gross state product as of 2018 and an unemployment rate of 3.9% as of December 2019. If California were a sovereign nation (2020), it would rank as the world's sixth largest economy, ahead of United Kingdom and behind India. As with California, so goes the rest of the country. Although it's experiencing a homeless plight that the present administration is struggling to ascertain, it continues to spiral out of control with no solution on the near horizon. I, for one, still find California one of, if not the most beautiful state in the country. Where else can you see the beautiful Pacific Ocean and the mountains all in one day! With that being said, I want to truly thank all my good friends for opening their door and allowing me to experience what a great state California is and can be again.

Sales 101-

The idea that there are "buying signals" along the way is incorrect. You must engage the person in the "full process" of the sale from start to finish for the brain to never question the purchase and continue to purchase from you.

Enjoy,

Brian Mahoney

Brian Mahoney, Publisher
Gutter Enterprise

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Water Harvesting or Catchment Systems- Too Many Benefits to Ignore

By Brian Mahoney

This may be out of your wheelhouse, but by interacting with landscape designers the gutter installer can offer additional credibility, as they encourage the homeowner different ways in which to utilize the water running down their downspout. From a simple in-line DIY downspout outlet to a more sophisticated catchment system, both with different price points. By advocating a Water harvesting (catchment) system, that is easy to install and makes perfect sense, the gutter installer has raised the level of his service and expanded his reach of other professionals recommending his service. There are any number of uses for roof run-off- watering plants- indoor and out, (setup a drip system for your outdoor gardens and plants), washing your car, the list is endless! By partnering with a landscape designer you have elevated your company as a person who cares about the environment and like the roofer who needs a gutter, all you need to do is setup the water harvesting system and the landscape designer takes care of the rest, another win-win scenario for all involved. There are many options for water harvesting and catchment systems. GE will cover the

popular ones. A very simple in-line downspout ranges in price from $10-$15 where the more sophisticated systems have some more bells and whistles providing the homeowner

ease of use with low maintenance. Price range from $35-$50. Both involve barrels so add that to the cost of your install. Make sure your barrel is raised to create positive gravity pressure.

Low Maintenance Landscape- GE was lucky enough to partner with Jim Boyer, PE, Managing Principal at David Miller/Associates, Inc., founded in 1985. Story written by Adam Westgate, Landscape Architectural Designer at DM/A.

Design for Low Maintenance Landscapes- As a Landscape Architectural Designer for DM/A, I am excited to add my experience in the design and build industry. Whether it is a small back yard patio, residential community, or large industrial site design, one of the most asked client questions is, "Can we implement a maintenance free design?"

As we all know, there is no such thing as "maintenance free" but we can make the reduction of post-installation costs a priority. Thus, we must be forward thinking when it comes to the selection of plant and hardscape materials. This is very appealing to our clients and is a key factor in our design approach from conceptual plans to complex site plans.

It sounds like a simple concept, but designers commonly overlook forward thinking designs. When designing a landscape plan, it can be easy to overdesign the site with large planting beds filled with layers of many unique planting varieties. Attention to proper plant sizing and spacing can be lost. DM/A is currently working with a residential community to identify, remove, and replace shrubs and trees throughout the property. Since installation, these plants have grown to obstruct views from windows and patios and have overcrowded outdoor living spaces throughout the community. These types of "landscape overhaul" projects can be very expensive.

We encourage you to make low maintenance design a priority. It is recommended you relay this to your design team or local landscaper at your initial meeting. Make sure to discuss the selection of low maintenance plant and hardscape materials in detail prior to signing off on a final plan or installation contract.

Some things to consider:

Introduce groundcover into your design to lower weeding and mulching costs. Mulching 2-3 times a year will become very expensive! A simplistic design can be beautiful and elegant. A specimen tree under planted with a solid mass of groundcover and stone boulder can be very attractive.

Proper selection of plant material. Select shrubs and trees that are easy to maintain and will not quickly overgrow their intended size and spacing. Be wary of fast growing/weak wooded trees, flowering, and messy fruit trees planted near walkways, patios, or parking lots.

Prioritize proper finished grading, drainage, and stormwater management. Speak with your civil engineer, landscape architect, or local landscaper about this. Something as simple as an incorrect pitch on a small back yard patio can spell disaster when it comes to a long-lasting installation.

Enjoy the sound of rushing water in your garden by considering a low maintenance "pondless" waterfall, bubbling stone boulder, or vase. These features are affordable, have low operating costs, and are easy to maintain/winterize. For further information go to www.arcsa.com for plenty of ideas. GE

Photos and article courtesy of Adam Westgate, Landscape Architectural Designer at DM/A.

Publisher's note: GE believes partnering with a landscape designer makes sense when dealing with water harvesting options and will obviously generate more revenue in your pocket. Aligning yourself with a creditable landscape designer will open the door to projects that you may not have realized in the past and once you align yourself with a roofer and landscape designer you will see an increase in revenue relative to time spent.

Record Rainfall has the East Coast embracing Water Harvesting

By Cassie Miller

Depending on where you live, a rainstorm can be a welcomed thing or a dreaded think.

As our globe experiences extreme weather changes, one of the fast-growing approaches to adapting to extreme changes in rainfall is a time-honored tradition – rainwater harvesting.

The Wetter-than-Wet East Coast

According to the National Oceanic and Atmospheric Administration (NOAA), Pennsylvania has experienced a large increase in heavy rain events, specifically those with precipitation greater than two inches, which has elevated the risk for springtime flooding along rivers and creeks.

Pennsylvania isn't the only state on the East Coast experiencing high volumes of precipitation.

The map on page 7 shows just how much precipitation the East Coast and other parts of the United States have received, making water harvesting an important, if not crucial practice in some parts of the country.

In Florida, coastal cities like Fort Lauderdale are spending millions to upgrade their stormwater and sewer systems in the face of rising sea levels and an increase in tidal flooding. In fact, over the next five years, the city will spend an estimated $200 million on stormwater upgrades in areas that are most-prone to flooding, the South Florida Sun Sentinel reports.

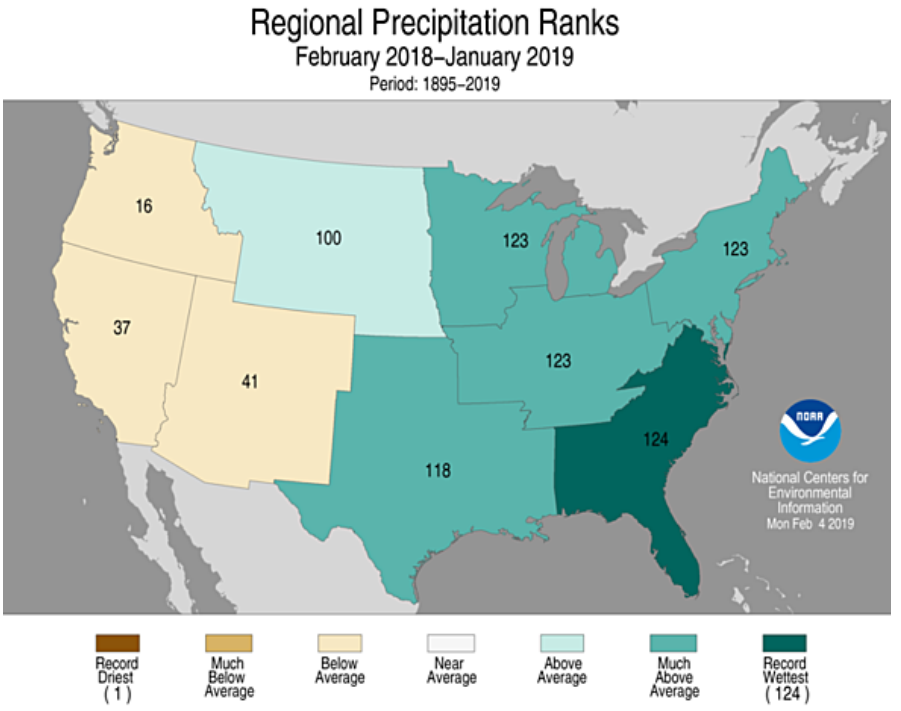
How can water harvesting help?

A changing climate means humanity will have to adapt in response to extreme weather fluctuations.

One way to do that is through rainwater harvesting.

In regions prone to drought, like the West Coast and Southwestern United States, water harvesting is used to irrigate crops and plants.

On the East Coast, where there is a plethora of water as of late, water harvesting is a way to control water, keeping it from overloading stormwater drainage systems, sewage systems and flood-prone areas.



Source: The National Oceanic and Atmospheric Administration

What Gutter Pros Can Do

Gutter professional across the country are talking to their customers about the potential benefits of rainwater harvesting, seeing its many benefits.

The process of collecting rainwater is easy to explain to homeowners. As rain collects in gutters, the water can travel down the channel, through the downspout and into a storage vessel for later use – see, easy!

Any rainwater harvesting system will need five key components:

1. Collection area – Basically, the roof. The rains first point of contact and a good indicator of the volume of water you will harvest given the roof's surface area.

2. Conveyance system – a conveyance system will get the water from the collection area to the storage area. Think gutters and downspouts.

3. First Flush Diverter – A first flush diverter is a system that keeps pollutants and debris from entering the system by casting off the first spell of rain.

4. Leaf Screens – If your customer is interested in harvesting water for potable drinking water, they will need a filtering system to remove contaminates. For customers who are collecting water for these purposes leaf screens installed along the gutter, in downspouts and at the entrance to the storage vessel are a must.

5. Water storage tank – A vessel appropriately sized to collect the volume of water expected. These storage tanks are commonly made from galvanized steel and concrete.

Pro Note: *On potable water systems, lead* ***cannot*** *be used as a gutter solder, even though this is sometimes the case in older metal gutters. Rain acidity could dissolve lead and contaminate the potable water supply.*

Canada

Water harvesting isn't just gaining popularity across the United States. In Canada, reforms to local municipal codes and bylaws have made the process of water harvesting easier and an attractive option.

The technology began catching on in the last two decades and has seen a steady increase in implementation ever since.

Rainwater harvesting systems in Canada have been used for everything from stormwater reduction to irrigation and lavatory plumbing. GE

Water:

The Single Most Destructive Element To A Home

By Brian Mahoney

We drink water, bathe in water, cook with water and are basically made of water. We need water in or near our homes. There are any number of ways for humans to access water:

1- Directly from groundwater reservoir, or aquifer, by drilling wells.

2 - From the groundwater reservoir as it makes its way to the surface.

3 - From rivers, streams and lakes.

4 - By collecting rainwater from the sky, called rain catchment or harvesting.

Water, the single most devastating element to a home. Inevitably it will find its way into a home or structure. The devastation it can leave behind can be costly in many ways. Mold, rot and mildew, harmful to health and family can cause devasting results and cost homeowners thousands of dollars and insurance companies millions.

On a lawn, pooled rainwater can harm landscaping, breed mosquitoes and prevent families from enjoying their yard.

Downspouts and gutters are some of the most common culprits of water drainage problems. Leaves, sticks, ice, or debris can easily clog gutters, and downspouts often become homes for rodents and other small animals. These clogs can lead to water leaking inside the home, wood and structure damage,

flooding in and around the building, and an infestation of grubs, earwigs, and other creatures in the organic-rich soil.

Simple, regular maintenance and cleaning of gutters and downspouts can lessen these problems. Even unclogged, some downspouts simply dump water into a yard, often near the building foundation.

Many regions are seeing an increase in storm activity and installers are recommending their customers to install 6-or-7-inch rain gutters with 3x4 or round downspouts to move the rainwater quickly away from the house. Oversized downspouts and wider inside corners(miters) in roof valleys are also installed to handle the increased water-flow. What can we do to mitigate or reduce the damage that homes or commercial building endure on a yearly basis? In our last issue we reviewed the different options for foundations. Many have commented that in some parts of the country there are no basements, therefore eliminating the need for gutters. This is simply not true. Adding gutters, at a minimal investment will eleviate the risk of sitting water around a foundation or footer. Water around a sitting foundation, overtime will find its way into your home or structure.

Unfortunately, there are many ways in which H^2O can become an unwelcome costly nuisance. Every yard has some sort of slope to it. A yard with no grade or a minimal grade will result in standing surface water that collects or pools in the grass. A negative grade that slopes toward a home or building is even more problematic. Re-grading a yard to create a positive grade is beneficial. Fortunately, there are a few cost-effective methods for diverting water available –

Increase grade- The earth around the home should be sloped away from the house to divert water away. Very simply, borrow earth from three feet away from the structure, and toss it against the side of the house thus creating the slope.

Divert downspouts- Installers can recommend black, plastic corrugated 6-inch hose that fits around the base of the downspout. This device carries water away from the house, preventing it from seeping down into the foundation.

Construct a swale ditch- Constructing a ditch and filling with landscaping rock can help divert water away from the house, especially for flat yards.

Water catchment or harvesting- is also becoming popular. Catching water as it leaves your gutter downspout and catching it in a rain barrel. Storing water in the barrel(s) for use at another time. Creating your own well of sorts.

Why is there so much interest of late in rainwater harvesting?

Rainwater harvesting is enjoying a revival in popularity for two reasons: its inherently superior quality and an interest in reducing consumption of treated water. Rainwater has long been valued for its purity and softness. It is slightly acidic, and is free from disinfectant by-products, salts, minerals, and other natural and man-made contaminants. Furthermore, rainwater harvesting is valued as a water conservation tool to reduce demand on more traditional water supply sources.

In theory, a rainwater harvesting system can collect approximately 0.62 gallons of water per square foot of roof area, per inch of rainfall. In practice, however, there is always some loss due to first flush, evaporation, splash-out, overshoot from gutters, and possible leaks.

Most installers use an efficiency of about 75-to-85 percent for the system. Across the country, you will see local governments, cities, municipalities and many cases HOA's developing their own set of guidelines to deal with water roof run from your house, barn or building.

To follow, find some of the regulation's individuals, companies and homeowners have to follow in Texas.

A home, using a collection rate of 0.62, a system efficiency of 0.85, and an average annual rainfall of 32 inches, you can expect to collect about 34,000 gallons of rainwater per year (0.62 x 0.85 x 2,000 x 32 = 33,700 gallons per year). Using these same parameters for an El Paso location but with an average annual rainfall of 8.5 inches, the amount of water you can expect to collect will be only about 9,000 gallons (0.62 x 0.85 x 2,000 x 8.5 = 8,950 gallons).

Who knew we would need all these formulas to determine how much rain **you** can harvest on your **own** property.

This method (water harvesting/catchment systems) is becoming more popular as homes are built in remote areas or areas prone to fires, and availability to access water is limited, it just makes sense. For under $200. You can have a water harvesting kit up and going in less than ½ hour.

Solar hot water roof panels are another very cost-effective way to use that roof run-off, often just a box with a glass lid with black pipes in it. Others, like evacuated tube collectors are more efficient but, more expensive. Chinese manufacturers are cranking them out by the millions.

They are far less expensive then solar panels, less obtrusive, easier to replace, and have a dramatically smaller mfg. footprint then solar panels and do not reek-havoc on your roof. With the proper filter system in place the hot water generated from solar hot panels could be used in tubs, showers, cleaning dishes or just general cleaning around the house. Granted, this system makes more sense in warmer climates. But if you do research you will find options for colder environments as well.

In some cases, like Monterey Calif., they are simply not allowing any new home building permits issued without getting a water permit, and that can be near impossible as cities and municipalities across the country try to control growth. In Texas water does not include percolating groundwater; nor does it include diffuse surface rainfall runoff, groundwater seepage, or spring water before it reaches the watercourse. mandatory usage of water is

tightly regulated allowing homeowners up to 5,000 gallons a year to harvest. On the east coast they have their own set of rules. States, municipalities, and local governments have an unfunded mandate to improve stormwater infrastructure from the U.S. Environmental Protection Agency and is enforced by the state Department of Environmental Protection. This is a slippery slope that may cause over-reach by the government to regulate rainwater that simply runs off the roof of homes. State legislatures consider factors, such as water rights, quality standards and public health, that rainwater harvesting may impact. In some states, especially in the West, water laws stated that all precipitation belonged to existing water-rights owners, and that rain needs to flow to join its rightful water drainage. Legislators also must ensure water quality standards and public health concerns are met when considering rainwater harvesting legislation. For example, collected rainwater may be used for non-potable purposes (e.g., watering indoor or outdoor plants) but may be restricted for potable purposes (e.g., drinking water).

Texas and Ohio have devoted considerable attention to this issue and have enacted several laws regulating rainwater harvesting. Texas and Ohio allow rainwater harvesting for potable purposes, a practice that is frequently excluded from other states' laws and regulations. Rhode Island, Calif., Texas and Va. offer tax credits or exemptions on the purchase of rainwater harvesting equipment. Oklahoma passed the Water for 2060 Act in 2012 to promote pilot projects for rainwater and graywater use among other water conservation approaches. Under a new Colorado law, House Bill 1005 (2016), residential homeowners are now able to use two rain barrels, with a combined capacity of 110 gallons, to capture precipitation from their rooftops. The collected precipitation is required to be used on the property where it is collected and may only be applied to outdoor purposes such as lawn irrigation and gardening. The law guarantees collection of precipitation from rain barrels does not interfere with existing water rights and that the use of a rain barrel does not constitute a water right. The state engineer is required to track adoption and usage among homeowners.

Other uses for rainwater- water gardens using soaker hoses, lined at the foot of your garden for ease and maintenance free gardens, drip water systems that also manage water for gardens and vineyards. Rain chains are another effective tool for managing water runoff and creates a look and tranquil environment adding to an area that can be enjoyed by homeowners and businesses. You can also clean cars utilizing an (in-line pump), sidewalks or removing mildew from siding. There are

many uses that make this process so effective and the cost to harvest water is minimal. A barrel, some hose and a unit inserted into the downspout to divert the rainwater into the barrel, soaker hose or drip systems. Many of these devices are winterized and the ease of use, once setup, is minimal to the homeowner or gardener. Many barrels or underground tanks can be installed with minimal work, lowering your water bill. As this commodity becomes scarce and the price to pump water to your home rises and maintenance cost to municipalities rise to maintain those water ways it makes sense to advocate water harvesting.

I realize what we are advocating may be out of your wheelhouse. But think about it. Your roofer should be advocating the solar water panels. Your landscape designer- low maintenance gardens and yards. You (the gutter Installer) really should be advocating the water harvesting systems. It all starts with **you**. Without a process in which to catch/save the water the other two **do not make sense**.

When considering your next quote and you are advocating those gutter guards mention water harvesting and the many benefits. For more information or see how easy it is to install a water harvesting unit see the link below. For more information regarding water harvesting see page 4.

https://www.youtube.com/watch?v=r69Zdk1sdRM&feature=youtu.be

or scan the QR code with your smart

Water Saving Tips

#1 Don't use running water to thaw food. For water efficiency and food safety, defrost food in the refrigerator.

#2 Next time you make that cocktail and accidentally drop ice cubes, don't throw them in the sink. Drop them in a house plant instead.

3 When washing your hands, turn the water off while you lather.

#4 Collect the water you use while rinsing fruit and vegetables. Use it to water house plants.

In many states, laws are passed through unmandated taxes or hidden fees by local governments to help reduce stress on water systems infrastructure. Check your local municipality, city, or HOA for an updated tax schedule.

To follow find a list of states where water harvesting is legal with restrictions. All other states water harvesting is legal or and encouraged.

Arkansas	Legal (with restrictions)	3,038,999
California	Legal (with restrictions)	39,937,489
Colorado	Legal (with restrictions)	5,845,526
Georgia	Legal (with restrictions)	10,736,059
Idaho	Legal (with restrictions)	1,826,156
Illinois	Legal (with restrictions)	12,659,682
Louisiana	Legal (with restrictions)	4,645,184
Nevada	Legal (with restrictions)	3,139,658
North Carolina	Legal (with restrictions)	10,611,862
Ohio	Legal (with restrictions)	11,747,694
Oregon	Legal (with restrictions)	4,301,089
Texas	Legal (with restrictions)	29,472,295
Utah	Legal (with restrictions)	3,282,115

Arkansas

Rainwater harvesting is allowed with some minor restrictions. The Arkansas Code Annotated Rainwater § 17-38-201 states that harvested rainwater can be used for non-potable purposes if the harvesting system is designed by a professional engineer licensed in Arkansas, is designed with appropriate cross-connection safeguards, and complies with Arkansas Plumbing Code.

California

The Rainwater Capture Act of 2012 states that residential, commercial and governmental landowners may install, maintain, and operate rainwater capture systems for specified purposes.

Colorado

According to House Bill 16-1005, residents are-allowed to collect rainwater in two rain barrels with a combined capacity of 110 gallons. The collected water can only be used on the property where it was collected and for outdoor purposes.

Illinois

Rainwater harvesting is highly regulated in Illinois. Plumbing-Rainwater Systems Bill SB0038 states that collected rainwater collected can only be used for non-potable purposes and rainwater-harvesting systems must be constructed in accordance with the Illinois Plumbing Code.

New Jersey

Rainwater harvesting is legal. Assembly Bill 2442 requires the Department of Environmental Protection to establish a Capture, Control, and Conserve Reward Rebate Program for property owners who use eligible techniques on their properties.

Texas

Rainwater harvesting is legal with some regulations. House Bill 3391 states that the collection system needs to be incorporated into the design of the building and a written notice needs to be given to the municipality.

Utah

Rainwater harvested is allowed on land owned or leased by the person responsible for the collection. Additional regulations exist, according to Senate Bill 32, depending on if a person is registered with the Division of Water Resources or not. A person who is registered may store no more than 2,500 gallons of rainwater, and a person who is unregistered may use no more than two containers at 100 gallons or less per container.

Virginia

Senate Bill 1416 grants an income tax credit to citizens who install rainwater-harvesting systems. Virginia Code §32.1-248.2 states that The Department of the state, in conjunction with the Department of Environmental Quality, shall promote the use of rainwater to help reduce fresh water consumption, promote conservation and reduce demand on water supply systems. GE

Manufacturers Review

Concord Sheet Metal

Pittsburg, Calif – My good friend Gordon and I had the pleasure of meeting Ron Wessel of Concord Sheet Metal located in Pittsburg, Calif., Concord Sheet Metal manufactures copper, steel and galvalume copper installations across the country for commercial and residential applications. Ron started out in the HVAC industry and was building his 1st house and wanted to do something different for his gutter. He wanted an OGEE profile and ended up developing the "California Dream" profile. Concord started in Concord, Calif., but, quickly out-grew the facility and moved to Pittsburg, where Ron has 24,000 square feet of machines that do everything from copper radius gutters, half-round 28 gauge copper to roof crickets or roof valleys made of copper, to collect runoff. Much of what Ron produces you will see on BART, Museum for the Golden Gate Bridge and UC Berkley to name a few. Gordon and I enjoyed a real in-depth tour of the inner workings of Concord Sheet Metal. Concord also does a lot with kitchens that utilize copper countertops and back splashes. Spend time with Ron and you will note one thing. His passion for his art. His welder has been with him over 20 years. You could tell Jeff really enjoyed his craft. Gutters are just that, ART. They simply tie a home together with a profile that enhances the look of the home or business. As well as being good looking it must be functional and protect the largest investment for homeowners.

Industry Spotlight

Rain-Water Systems of Santee, Calif.

After many short phone conversations, I finally caught up with Albert Barlow of Rain-Water Systems located in Santee Calif. We finally had a chance to catch up over the phone. I had no idea how complex of an individual I was about to meet. Albert has been in the seamless gutter industry for well over 35 years and has installed over 400 water harvesting units just in southern California alone. He has also been to several countries to install water harvesting units where limited access to quality drinking water is a real concern. Rwanda, Africa is one such place. Albert has also produced an eBook on rain harvesting called "Rainwater Harvesting in Developing Countries" available on Amazon.

A musician and artist from a large family, Barlow said his stepfather moved their family from Utah to southern California in the 80s after the economy collapsed and started the business Albert runs today. "California should be a leader in the water harvesting industry, but because of regulations, it can't get out of its own way". Albert continued, "the shear need for quality water in the southern portion of the Golden state is paramount and should be a priority in the state as well as Texas and across the country. Rainwater Harvesting starts with interacting with individuals and government raising awareness through education for the need of water catchment systems and water independence".

Albert went onto say, "We offer all types of rain gutters including seamless aluminum, custom copper and commercial grade steel. We have our own half round and K style forming machines and believe that our portfolio of installed jobs is unmatched in The United States. We have installations over two countries, four states in America and three counties in California. No other contractor has the prolific portfolio of completed rainwater installations or ornate and elaborate ornamental systems that we do". Albert wrapped up, "Rain-Water Systems offers residential storm water management and water conservation products. Our resources also include seamless custom gutters and rainwater harvesting equipment and water conservation landscaping. We hold California Contractors Licenses C61/d24 for metal roofing and C27 for landscaping services. We are licensed, bonded and insured".

GE recommends you visit their site and check the many unique gutter installations and water harvesting installs.

http://www.rain-watersystems.com/index.html

Miters

We buy them, we make them, we even widen them

Miters are always a bit of a challenge. They serve a genuine purpose, carry water around an inside or outside corner. So how do you prefer to make your miters … strip, box, by hand? GE talked to a few seasoned installers in the industry and we hope we have hit the mark for you. As always please reach out to GE with concerns or feedback.

One thing that stands out, miters are a polarizing issue. Pre-drilled, no holes, color. There are tools available to make miters or you can purchase or produce your own miters. Chicago market loves their strip miters while other markets swear by the box miter and others, who have been in the industry for some time, will tell you, "it's easy make your own".

What are the positives and negatives to popular options? What is the quickest, least expensive, most efficient? GE went to a few who are clever enough to make such an item or devise a process to make your own miter. DJ Mills, from E-Z Miter, while recovering in a hospital room, devised a template by which installers can perform the proper strip miter installation. In talking with others in the business, ***strip miters*** are their choice. Pete, from The Gutter Guy in New Jersey prefers the ***strip miter*** approach. It is cost effective and when performed on a regular basis it creates a clean finished look and only one seam where the two adjoining gutters meet.

Inside Strip miter

Bay miter

Another miter, the ***bay miter*** is in a class on its own. Having to make numerous 45-degree cuts to navigate a bay window. ***Bay Strip Miters*** are the same as strip miters but work on corners that are 45 degrees. Adjoining gutters need to be cut at 22.5 degrees each.

Inside Box Miter

While others prefer the inside or outside ***box miter***s in some cases the ***extreme miter (below)*** to handle the additional water volume. You have additional seams, but they are forgiving for installers. Allowing for your two lead gutters not have to be cut to an exacting fit.

Now, each one has their advantages. In talking with many installers, suppliers and manufactures in the industry it basically comes down to comfort level with each process or how long you have been in the industry will dictate what option you use. If you are relatively new to the industry, you will probably pick the box miter. More experienced individuals in the industry use the strip miter or have developed their own inventive process for the miter on-site. GE has collected some of the popular miter options and provided a brief description with QR code for your review. You decide. GE

Scan the QR code with your smart phone.

Extreme Miter installation by Hancock Enterprise

D J Mills / EZ Miter - Gutter Template for strip miter application

For other helpful videos scan the QR code below or go to www.everythinggutter.com

Industry Resources and Websites

Hancock Enterprises, Inc.
www.hancockent.com

KWM Gutterman, Inc.
www.kwmgutterman.com

Raytec Manufacturing LLC
www.rayteclic.com

Diamond Back Gutter Covers
www.diamondbackguttercovers.com

Ralph Wilhelm Seamless Spouting Inc.
www.wilhelmspouting.com

Liberty Seamless Enterprises
www.libertyseamless.com

US Aluminum
www.usaluminuminc.com

National Weather Service-Climate Prediction Center
https://www.cpc.ncep.noaa.gov/products/Drought/

www.disastersafety.org
Insurance Institute for Business & Home Safety

www.allweatherarmour.com
The Only Four Season Roof & Gutter Protection™

Front Street Manufacturing, Inc.
www.gutterworks.com

SpoutOff Rain Gutter Outlets
www.thespoutoff.com

Garrety Manufacturing
www.garretymfg.com

EZ Miter
www.ezmiterguttertemplate.com

American Gutters
www.guttermaterials.com

EZ Gutter Guard Protection
www.e-zgutter.com

GUTTER ENTERPRISE

Upcoming Issues

June 2020

Theme Feature ..... Gutter Industry Future
Profile ..... Gutter Installer and manufacturer/supplier
Technical Article ..... What's new in gutter tools
Departments ..... News, Installer Column, Q&A, Sales Column, Sales Q&A

August 2020

Theme Feature ..... The Color Conundrum
Profile ..... Gutter Installer and manufacturer/supplier
Technical Article ..... Gutters, Siding & Metal Roofing- What's next
Departments ..... News, Installer Column, Q&A, Sales Column, Sales Q&A

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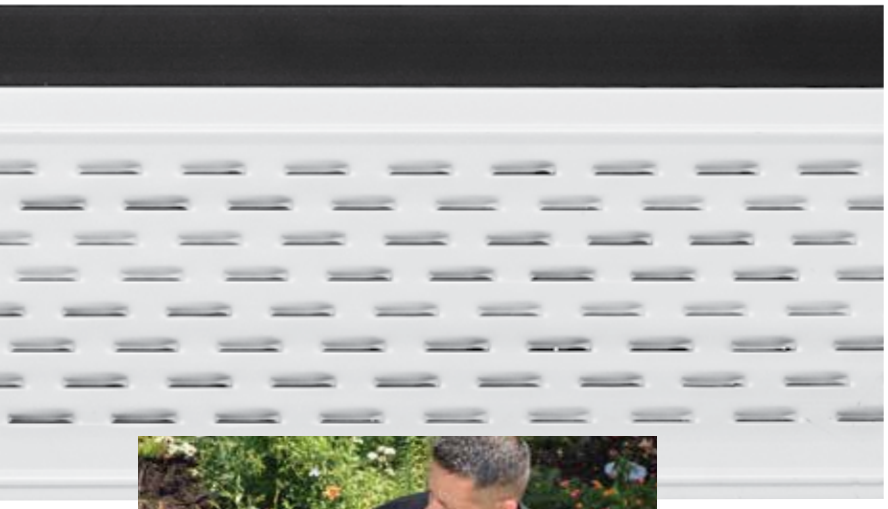

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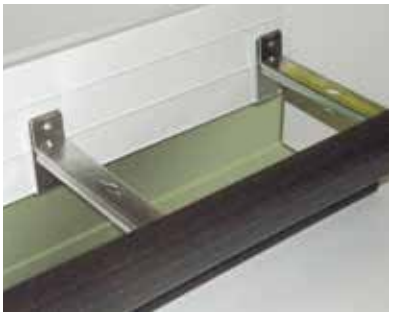

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