Safety Information

-Be sure to work from secure and safe platforms and ladders
-Secure area underneath your work space to make sure nobody gets hurt in case you drop something
-Edges of cut copper are sharp; be sure to wear propper gloves when handling cut gutter
-When cutting copper, be sure to wear approved safety goggles
-Never install or work on damaged roof material or structure
-When you install gutters, make sure the collected water can run off without causing damages
-Never modify parts without consulting a professional or Slate and Copper's technical support team
-Dispose of leftovers and off-cut safely and in accordance with best practices
-Never leave any parts or tools unsecured on your roof, they might fall down causing serious damage or injury
-Never do installation work alone- always work in a team
-Check for power lines
-Never install on icy or slippery roofs or in windy conditions

-IF YOU DO NOT FEEL YOU CAN COMPLETE THIS WORK SAFELY, CALL A LOCAL CONTRACTOR

WARNING:
Copper is a sharp metal and will bite you if you let it. Firmly and securely hold all pieces when working with them. Do not slide your hands or fingers along any straight or finished edges. This is partly the reason why we wore gloves in our demonstration. Wearing gloves will also help minimize the fingerprint marks on the gutter system. The best gloves to use especially for grip are ones with the palm and fingers coated with a rubber or latex material.

Installing Downspout Brackets

Tools Required:

* Cord or Cordless Drill (3/8” or 1/2” size drill)
* Drill Bit for Drill
* Vice Grips or Crescent Wrench
* Level

step 1

step 2

The downspout bracket is used to hold the downspout to the wall. The downspout bracket is a two piece part (see picture Step 1); a bolt screw which goes into the wall, and a hinged collar piece that attaches to the end of the bolt screw. The hinged collar piece is the actual downspout bracket. The bolt screw goes into the wall and is threaded on one end so the collar piece of the bracket can be screwed onto it. The shank (non threaded portion) of the bolt screw is right around 3/8” in diameter, and the overall length of the bolt screw is about 4 1/2”. About 3/8” of that overall length is the threaded end of the bolt screw, so the collar piece can be screwed onto it. The collar piece is hinged on one side, and the other side has a eyelet screw to tighten the bracket together (see pictures Step 2, Step 3 & Step 4). On the back of the downspout bracket it has a threaded hole, so the downspout bracket can screw onto the threaded end of the bolt screw (see pictures Step 1 & Step 5).

Part 1

There are many different ways to install the downspout bracket depending on the type of application (wood, stucco, or masonry). We will break down a few general guidelines depending on the type of application. But before we do, just some things you should know first. With this type of downspout bracket the back of the downspout can be held off the wall anywhere from; pretty much flush, to about 3" max off of the wall. You will need to determine what kind of spacing you want behind the downspout before installation can begin. We recommend a happy medium 3/4" to 1 1/2" off the wall is perfect. When hanging a piece of downspout it is best to use 2 downspout brackets for a downspout that is 10' to 15' tall. On shorter downspouts just one downspout bracket can be used just as well as two. On taller downspouts more downspout hangers will be needed depending on the overall height of the downspout. Typically, a 20' to 25' tall downspout can use 3 downspout hangers. No matter how tall the downspout is, place the downspout brackets equally spaced from the top and bottom on the downspout. Uniformity and consistency will visually look the best.

step 3

Anywhere from 1' to 4' spacing from the top and bottom of the downspout is perfect on downspout bracket location, and the spacing is all dependent on the overall height of the downspout. Once the bolt screw and downspout bracket is installed into the wall; It would be beneficial and helpful to build the elbow offset at the top of the downspout first, so a more exact measurement of the height of the downspout can be made.

Part 1

The bolt screw portion of the downspout bracket does not need to be used if you can't or don't want to. You can buy a stainless steel screw and plastic anchor to fasten the downspout bracket to the wall. If you are going this route, then the screw you buy needs to be long enough and small enough to fit through the threaded hole on the back of the downspout bracket collar piece, and into the wall. This method can be used with just about any type of application.

step 4

step 5

A couple of useful tips; first tip, before you drill your holes in the wall make sure the holes are going to be lined up vertically with a level. Install a couple of downspout brackets with the bolt screws onto a piece of downspout in the approximate location where they need to be. Hold the downspout in place on the wall, now take a level and make sure the downspout is straight up and down and not past vertical. Once vertical is found make a couple of marks on the wall where the downspout brackets are. Second tip, is for drilling into the wall to anchor the bolt screw. On your drill bit make a mark with a black sharpie pen to the depth you want your hole to be. You can also use a piece of tape to wrap around the drill bit to set a depth.

Part 1

Wood Application:

If using the downspout bracket into a wood surface, then you will need to drill a hole into the wood, so the downspout bracket can be hung. First determine where on the downspout the hangers need to go, and how far off the wall you want to be. You will need a drill bit slightly smaller that the bolt screw going into the wall (about 1/4“ bit). Reason; if the hole is too big, then a filler or anchor of some sort is needed for the bolt screw. On a wood application we can simply use the bolt screw to fasten right into the wood after a hole is drilled. Once the hole is drilled into the wall, fasten the bolt screw into the hole using vice grips or a crescent wrench to the desired depth. Then fasten the collar to the bolt screw. A small bead of caulk can be put around the bolt screw to make the hole more watertight.

Stucco and Masonry Applications:

For applications where no wood is present to fasten into behind the stucco or masonry, then one of the following applications can be used. If you can find a plastic anchor to fit the bolt screw, then you can use the anchor in the hole in the wall, and fasten the bolt screw into the anchor. Another alternative, find a drill bit and wooden dowel rod that are the same diameter (1/2” drill bit and dowel rod, or even a 3/4” drill bit and dowel rod will do). Take the drill with the drill bit, and drill the hole/s into the wall where they need to be, make sure to ream out the hole slightly so the dowel rod can fit into the hole. Take the wooden dowel and cut it to length to the depth of your hole. Insert the dowel rod into the hole in the wall, and pre-drill a 1/4” hole into the center of the wooden dowel rod. Once this is all done fasten the bolt screw into the hole using vice grips or a crescent wrench to the desired depth. Then fasten the collar to the bolt screw. A small bead of caulk can be put around the bolt screw to make the hole more watertight.