

How To Install and Solder Copper Gutter

WEAR GLOVES WHEN HANDLING COPPER

- To determine where the gutter should be attached to the fascia you must first use a framing square setting it flush with the fascia to the bottom of the shingle. Make a mark on the fascia and repeat on the other end of the run. Measure the length of run and determine which end the downspout will be on. There must be a 1/2" of fall for every 10' of run (ex. 40' of run x 1/2" of fall = 2" of fall). After you determine the drop mark the fascia on the downspout end with the amount of drop that is needed.
- With a chalk line mark the fascia from the starting end to the downspout end including the drop.
- Using the chalk line as a reference point, install fascia brackets on every other rafter tail.
- Gutter splices should be hidden under the fascia bracket so it appears to be seamless.
- Taking the length of run, cut the gutter and add 1 1/2" for the solder joint. Making sure your splices fall in the center of the fascia brackets.
- Lightly sand the 1 1/2" over lap on each piece and the ends for the end caps.
- Apply flux to the sanded areas and pre-assemble starting with the downspout end of the gutter and laying each additional piece of gutter inside the other so that water will flow naturally.
- Use a 50/50 lead - tin solder for the solder joints.
- Using a soldering iron heat both sections of the joint holding the hot solder to the hot joint that is to be soldered. Once the copper is hot enough, the solder will wick into the joint. Continue moving the soldering iron and solder up the seam until the joint is completely sealed.
- Use the same method on the end caps, inside and outside miters, and on the outlets.
- Excess flux must be cleaned from the gutter after soldering is completed.
- Upon completion your gutter is now ready to hang in your fascia brackets. Attach per fascia bracket manufacturer's specifications.