



# WEAVER METAL PRODUCTS

## Field Installation Manual



Weaver Metal Products

7051 SR 83  
Holmesville, Ohio 44633

330-674-7051

330-674-7052 (fax)

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

## **Thank for your purchase of Weaver Metal Shingles.**

**We want to make installing the Weaver Metal products as easy as possible. We hope you find this manual helpful, and user-friendly.**

**These instructions are intended to serve as a basic field guide for installation. Although each process is labeled as “Step 1.” Etc.. The particular roof you find yourself working on may require you to use these steps in a different order than described in this manual.**

### **Tools needed:**

- **Left, and Right cut tin snips**
- **Folding pliers (Duck bills, etc) or similar tool**
- **Cordless screw gun, and appropriate driver**
- **Tape measure**
- **Pencil for marking**
- **Carpenters square**

### **BE SAFE!**

**Remember, safety is YOUR responsibility, always wear protective gloves and safety goggles when working with this product. Sharp metal edges may cause harm.**

#107 Weaver Drip Edge



## Step 1. EAVES

- Installation begins at the bottom- left corner of the work area with the #107 Eave.
- The screws needed to accommodate the installation are the 10x1" pancake head screw, spaced approx. 8"-10" (max)
- Once the edges of the roof surface are properly secured, begin installation using desired stagger pattern. (Ex. 2b)
- Chalk lines across roof every 14" as necessary to ensure a straight, square, weather tight application of product. These lines should run continuous horizontally across roof surface.

Ex. 1



Ex. 2



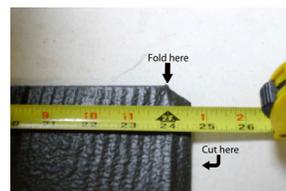
## Step 2. Notching Panels

- When installing panels in a "Folded Gable" using the #107 Drip Edge, it is necessary to notch the cut pieces, and pre-fold the panels in preparation for install.
- To do this, begin by hooking a tape measure onto the Right hand edge of the panel to be cut, making marks at the top, and bottom interlocking flanges.
- Add 3/4" to 1" of length to your original marks, and make a straight line at this measurement the entire height of panel. This line will be where you cut your panel to length.
- Once the panel is cut to length notch the top and bottom interlocking flange at the original marks. After the material has been removed, use your folding tool to "Hem" the notched edge down, 180°. This forms an interlocking flange similar to factory panels.

Ex. 3



Ex. 4



Ex. 6



Ex. 5



*10" Basic step pattern:*

- Begin by measuring and marking your panels as described above, using 10" Increments. Install your panels starting with a full piece, and stepping down each consecutive piece in 10" increments.
- Before installing your next full piece once the cut pieces are all installed, it is necessary to apply the next pieces to the RIGHT of the stair stepped "Starters".

*8" Advanced staggered pattern:*

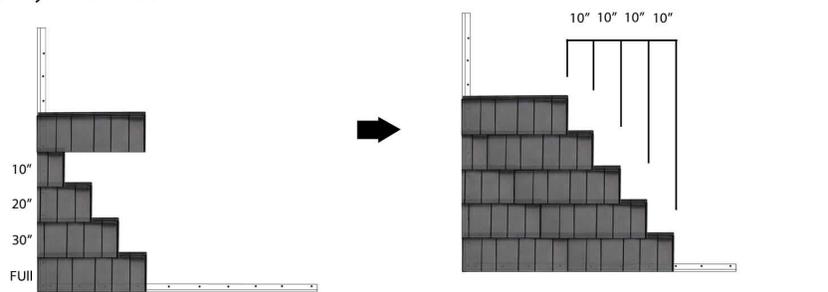
- Begin by measuring and marking your panels as described above, using 8" Increments.
- Install your panels starting with a full piece, then follow the pattern shown in example: 2b.
- Before installing your next full piece once the cut pieces are all installed, it is necessary to apply the next pieces to the RIGHT of the stair stepped "Starters", ensuring that each piece is completely fastened before installing an overlapping panel.
- Ensure that each piece is properly inter-locked with each adjoining piece. Repeat pattern as needed until the uppermost section of roof surface has been reached.

**Fasteners:**

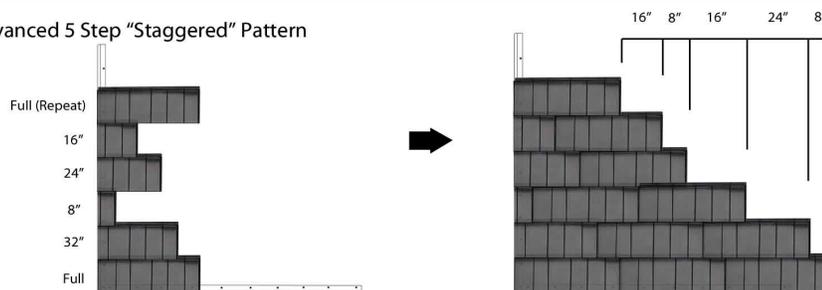
- The appropriate fastener for the panels is a 10" x 1" Galvanized pancake head screw.
- Proper spacing 8"-10" (Max) O.C. and AT LEAST 2" from an overlapping end joint.

Ex. 2b

Basic 4-Step "Pyramid" Pattern

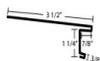


Advanced 5 Step "Staggered" Pattern



### Step 3. Gables

#107 Weaver Drip Edge



#### Folded Gables

- When starting or finishing a roof section, begin by notching the panel to be installed.
- The notch should remove the upper and lower inter-locking flanges approx. 3/4" - 1" back from the appropriate side. This will create the 3/4" - 1" flange which will be folded 180° down, to create an inter-locking flange similar to the left hand edge of a factory panel as described in step 2
- When "Finishing" a roof area, using the #107 Drip Edge, the same process is used as described in step 2, EXCEPT, that rather than folding the edges 180°, stop your bend at 90° so that you are able to lay the panel over the drip edge, and finish the fold to 180° wrapping over drip edge AFTER the piece has been installed.

Ex. 3



Ex. 4

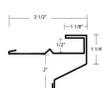


Ex. 5



#### Retro Gable

#210 Weaver Retro Gable



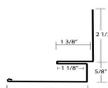
When using the #210 Retro Gable no additional folding is needed on either the left or right hand edges of roof panels.

- Begin by installing the #210 Retro Gable prior to installation of roof panels using #10 x 1" pancake head screws, spaced 10" O.C. (Max) Cut each panel to the desired length in accordance to step 2, ensuring that the "J" flange of the Retro Gable trim covers the cut edge. **! It is not necessary to add 3/4", or fold the edges when using the Retro Gable!**
- Your first (bottom most) roof panel, should have approx. 3 1/2" notched out of the underside flange of the panel to allowing any trapped moisture to escape. See example 9. (Same as when installing Side Wall)

Ex. 6



#406 Weaver Side Wall



## Step 4. Sidewall trims

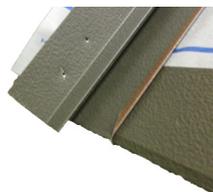
Sidewall trims can be treated the same as a Retro Gable in regard to cutting your pieces.

- Firstly install your #406 Sidewall, notching and folding the bottom of the trim over the drip edge.
- If the wall flashing is on the starting side (Left), install panels as described in step 3 to accommodate pattern.
- The finish side (right side) is treated exactly like a “Retro Gable”. (Step 3)
- Your first (bottom most) roof panel, should have approx. 3 ½” notched out of the underside flange of the panel to allowing any trapped moisture to escape. See example 9.
- Use the same method for installing the bottom most panel on a finishing side (right side).

Ex. 7



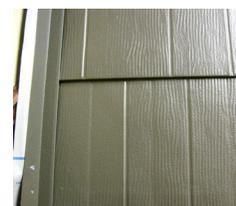
Ex. 8



Ex. 9 (Bottom View)



Ex. 10



## Step 5. Headwalls

#407 Weaver Headwall



A headwall application is one of the simpler areas to terminate on your roof surface using the #407 Headwall trim.

- Begin by ensuring the roof panels are cut to length within ½” of the wall, and properly affixed to the roof surface with screws.
- These screws should be within 2” of the wall being flashed.
- Once the surface is ready, install the “Uni-seal” to the bottom of the “kick leg” of the #407 trim. This will ensure a weather tight seal.
- Place the trim in place, and fasten using fasteners on the “Wall” Leg of the trim, as needed to accommodate the type of wall being attached to.
- Be sure there is enough pressure pressing the foam closure firmly against the roof panels, to ensure proper weather tightness.

Ex. 11



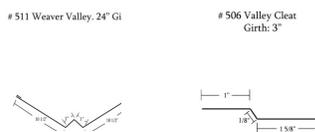
Ex. 12



Ex. 13



## Step 6. Valleys



**! Valleys are an area of particular concern when installing a roof. Please use extra care to ensure a weather tight application of this product!**

- Begin with installing the W-Valley flashing, marking the eave location, and angle on the bottom of the valley trim.
- Cut the trim 1" longer, to allow for notching, and folding over the drip edge. See example 11.
- The "W" portion of the valley trim should also be cut, and folded to close off the exposed rib.
- Once the valley is installed, and held in place with a few temporary screws.
- Chalk a line on both sides of the valley so that the "Flange" of the Valley cleat will be located 4" out from the base of the "W".
- Once this is done install the #506 valley cleat, using butyl sealant on the bottom "Fastener" leg, which should be installed on the outward side (pointing away from the valley).
- Fasteners should be spaced 8"–10" (Max), ensuring that the fastener passes THROUGH the butyl sealant on the underside of the cleat.
- At this time the "Flange" of the cleat should be pointing toward the "W" of the valley with +/- 1/8" spacing between "flange" and w-valley. This space is to allow the roof panels to be notched, and folded to interlock over the valley cleat.

Ex. 14



Ex. 15



Ex. 16



Ex. 17



### Installing valley cut pieces:

- You will need to mark your panels according to the angle of your valley, then cut, notch, and Hem the panels the same as described in step 2.

**NOTE!** You should use something to protect your valley trim from being scratched while installing the cut, and hemmed panels. Some installers apply a small piece of tape on the cut edge, others use a piece of flashing that has tape on the edges to protect the valley trim, you should be able to find a method that works for you.

- Finish by carefully sliding the roof panel into place, being careful not to scratch the valley trim.
- Ensure that the panel has thoroughly interlocked on both ends, and on the bottom flange.
- Once the piece is in its proper place, attach panels with appropriate fasteners, and continue in like fashion until the process is complete.

Ex. 18



Ex. 19



## Step 7. Hips / Ridges.

#308 Weaver Ridge Base  
w/ Foam



(Individual “Hip / Ridge CAPS”)

#308 Weaver Ridge  
Base w/ Vent



Ex. 20



Ex. 21



### Non-Vented:

- When utilizing the #308, Ridge base, and 12 Hip/Ridge caps, begin by installing the “Uni-Seal” closure foam to the bottom side of the #308 Base, on both sides, directly under the ‘Kick”.
- Once cut to the desired length hold this trim in place with #10 x 2” pancake screws.

### Vented:

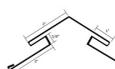
- Begin by installing the vent sections on the ridge of the roof, followed by the #308 Base trim.
- The # 308 base is then covered with the individual “Hip/ Ridge” Caps.

**! NOTE! When installing a ridge application, be sure and start your application on the DOWN WIND end, from prevailing wind direction!!!**

- Your first piece of Cap will need to be cut to angle, notched, and folded as needed in the field to cover the end of the Base trim, similar to folding the Valley Trim as described in step 5.
- Continue installing the caps, using at least 2 screws per cap, until the far end has been reached. Your finishing cap will need trimmed, notched, and folded in the field to ensure a proper seal over the end of the #308 Base trim.
- It may be necessary to use exposed fasteners at this spot on your roof. Be sure and use fasteners that have a weather tight washer if you find you need to use exposed fasteners at this spot.

## # 310 Hip/Ridges

# 310 Hip/Ridge



- When installing a #310 Hip trim, the #310 trim should be installed BEFORE the roof panels.
- It is then treated similar to a #210 Retro Gable described in step #3.

**! It is recommended the panels be notched and a 1 /2” flange be folded “UP”, to help protect your roof from driving rain!**

