

Before You Begin:

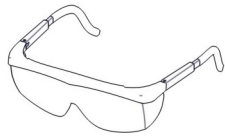
- **Consult your local building department for any required permits**
You may be required to obtain a building permit for this structure. Contact your local building department for details.
- **Read instructions thoroughly**
Please read all instructions and notes carefully prior to assembly. Our company is not responsible for replacing parts lost or damaged due to incorrect assembly.
- **Check for all parts**
Use the Parts and Hardware List to check for any missing parts. To prevent scratching of painted materials, place on a tarp or other protective material.
- **Prepare surrounding area**
Remove any obstructions around shelter location. Shelter installation should be scheduled after all concrete and masonry work in the surrounding area is completed.
- **Assistance is required during entire assembly.**



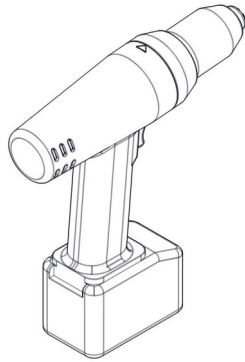
CAUTION

- Proper site preparation is required.
- Standard shade structure design does not include additional loads such as hanging heavy plants, swings, or other objects.
- DO NOT stand or sit on the shade structure roof.
- Repair or replace broken parts immediately.
- This kit contains parts with metal edges. Please be careful when handling.

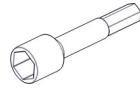
Tools Needed for Installation



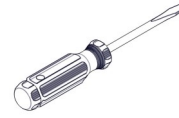
Safety Glasses



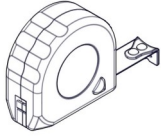
Electric Drill



Socket / Hex Head Driver
Sizes: 1/4", 5/16", 3/4",
1", 1-1/16"



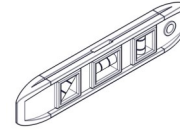
Screw Driver
Flat & Phillips



Tape Measure



Socket / Ratchet Wrench
Sizes: 1/4", 5/16", 3/4",
1", 1-1/16"



Carpenters Level



Ladder

Other Required Tools: Gloves, Chalk Line, Silicone Caulking

Recommended Tools: Rubber Mallet, Carpenters Square, Pliers, Metal Hack Saw

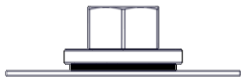
NOTE: Heavier equipment such as a forklift, boom lift, or lift table may also be required.

Installation Notes and Tips

- Complete site preparation before beginning assembly.
- It is **VERY IMPORTANT** that the current footing layout is obtained from the manufacturer before pouring any footings or setting any anchor bolts.
- Anchor bolts are **NOT** included and must be furnished at the time of installation. Consult local building codes and the provided manufacturer's drawing for required anchor specifications.
 - We recommend using high quality stainless steel anchor bolts in areas with a corrosive climate.
- If the shelter is set on a concrete slab, the slab must be level so that all posts will be at the same elevation when mounted and anchored down.
 - If the shelter is set on an unlevel surface, it will bolt together if assembled with all bolts loose. When the bolts are tightened, some of the steel joints may have gaps and the unit may not be exactly plumb. However, the strength of the structure will not be affected.
- In areas with frequent rain, the slab or footing elevation should be at least 1" above the elevation of the surrounding landscape to prevent water from ponding around the base plate and anchor bolts.
- **DO NOT** attempt to assemble on a day with strong winds.
- Have assistance nearby to lift and secure parts in place.
- As is common in the erection of all types of metal structures, due to job site conditions (uneven slabs, footings, etc.), slight modifications such as reaming of some holes or drilling new holes may become necessary and must be done on the job site.
- Predrilling holes and removing metal shavings and debris from between components before fastening together will help prevent rusting or staining of the surrounding surfaces.
- Cutting and drilling metal components will cause shavings which must be carefully removed by sweeping or brushing. If this is not done, the metal shavings will rust and stain the surface finish.
- It is recommended to lower the speed of electric drills during this installation. Installing Tek screws at a high RPM may cause the Tek screws to become damaged or break during installation.

Installation Notes and Tips (continued)

- Avoid over-driving, under-driving, or driving at an angle to properly install fasteners. Over-driven fasteners can depress the material and allow water to collect around the fastener, which will corrode the surface finish. Under-driven fasteners can cause leaks and may back out over time.



✓ CORRECT



✗ TOO LOOSE



✗ TOO TIGHT

- The center-to-center spacing of the roof panel locks must be maintained as the panels are installed. If this is not done, problems may not show up until towards the end of the installation when parts may appear to be cut too short or too long. If this happens, check each roof panel spacing and re-set if necessary.
- We strongly recommend using a high grade sealant, such as our 100% silicone caulk and sealant. Caulking should be applied uniformly and without skips. A poor caulking job can cause leaks.

Care and Maintenance

Every 12 months your shade structure should be inspected and maintained by:

- Tightening loose nuts and bolts at all connections.
- Repairing damage to the finish to prevent corrosion.
- Replacing lost or damaged fasteners, brackets, and other parts.
- Replacing brittle or cracked sealer to prevent leaks.
- Removing obstructions and miscellaneous build-up from gutters, eaves, and downspouts.

Note: *These are basic installation guidelines for our standard load units and may not be suitable to your specific installation. It is important to follow all local and national building codes when installing any exterior improvement product.*

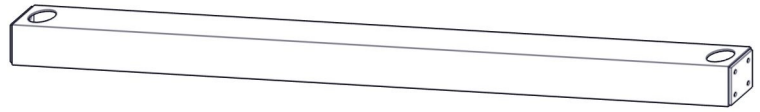
Refer to the provided manufacturer's drawing for details and special notes.

NOTE: Length and quantity of parts will vary based on the size of the shelter.

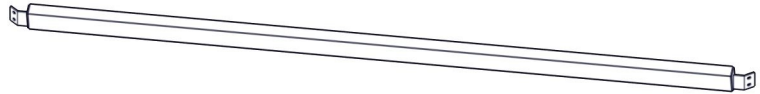
Parts List



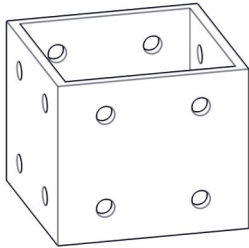
A Steel Post



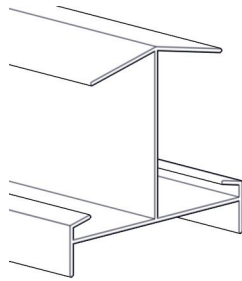
B Steel Rafter



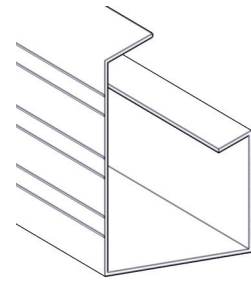
C Steel Purlin



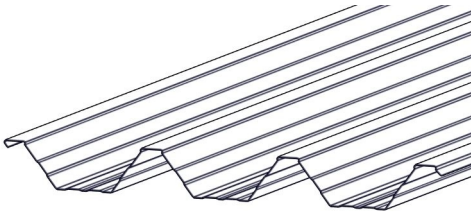
D Steel Tie Block



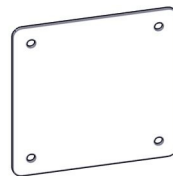
E Ridge Cap
Part Code: 11517



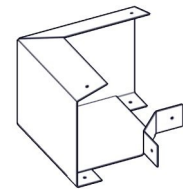
F Gutter
Part Code: 11139



G Roof Panel W Style
Aluminum Part Code: 10307
Galvalume Part Code: 30106



H Cover Plate



I Corner Cap
Part Code: 60048



J Peak Cap



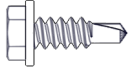
K Base Cap
Part Code: 60063



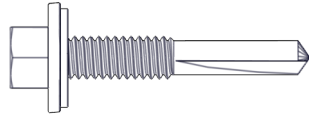
L Scupper
Part Code: 90241

Screws shown actual size.

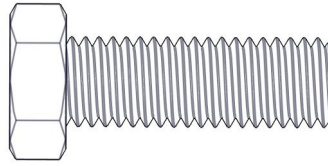
Hardware List



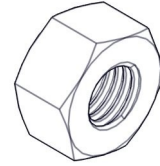
AA #8 x 1/2" Screw
Part Code: 20102



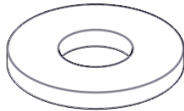
BB #12 x 1-1/4" Screw
Part Code: 20201



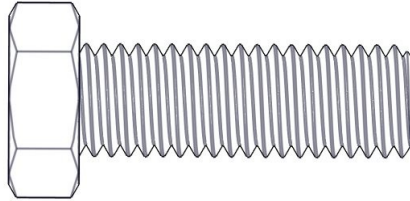
CC 1/2" Hex Bolt
Length Varies



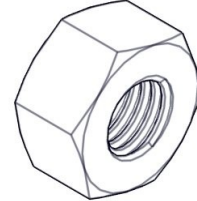
DD 1/2" Hex Nut
Part Code: 20530



EE 1/2" Washer
Part Code: 20910



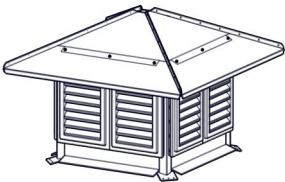
FF 5/8" Hex Bolt
Length Varies



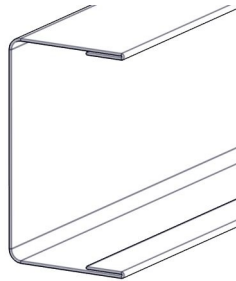
GG 5/8" Hex Nut
Part Code: 20531

NOTE: Bolt diameter and length determined by factors such as loading requirements, plate thicknesses, etc. Always check the provided manufacturer's drawing for bolt specifications required at each connection point.

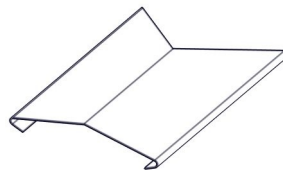
OPTIONAL Parts



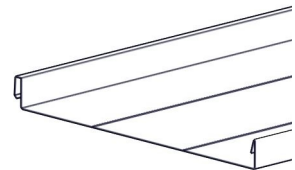
N Cupola (shown with
optional louvers)



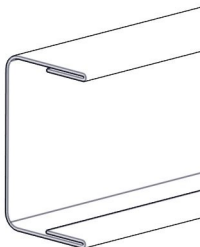
O Cupola Flashing



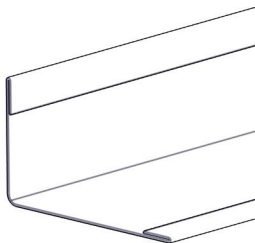
P Ridge Cap Flashing



Q 18" Wide Standing
Seam Panel
Part Code: 30120



R Wood Roof C Cap



S SS Panel C Cap

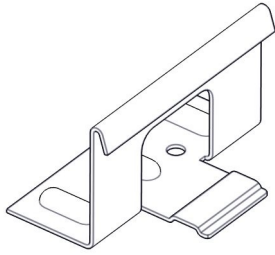


T Wood Roof V Flashing

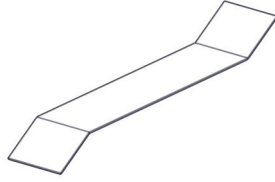


U Drip Edge Flashing

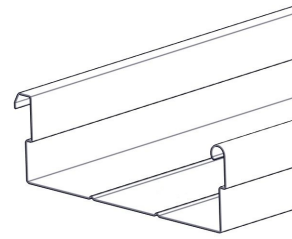
OPTIONAL Parts (continued)



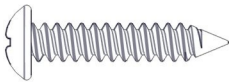
V SS Panel Clip
Part Code: 20836



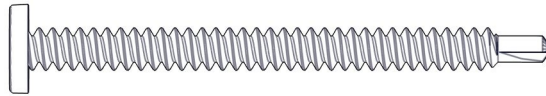
W Gutter Strap



X 8" Wide Standing
Seam Panel
Part Code: 10214



HH #10 x 1" Screw
Part Code: 20650



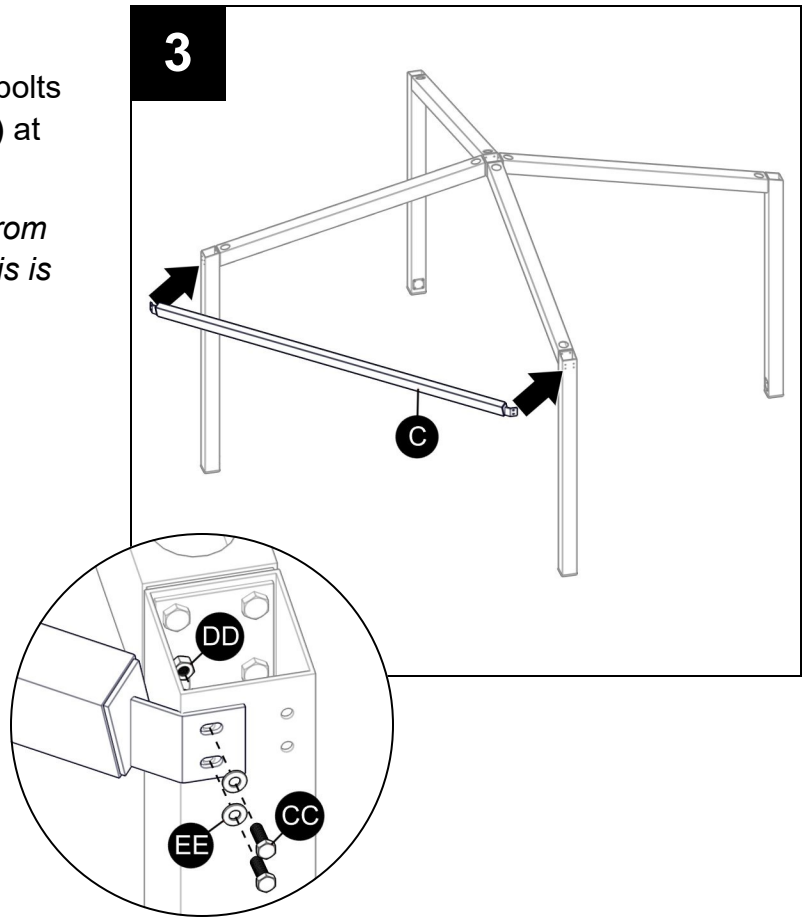
|| #14 x 2-3/4" Screw
Part Code: 20663

STEP 3

Attach purlin **(C)** to posts **(A)** using (2) 1/2" hex bolts **(CC)**, 1/2" hex nuts **(DD)**, and 1/2" washers **(EE)** at each connection.

*NOTE: Purlins **(C)** must slope down and away from the shelter, following the slope of rafters **(B)**. This is necessary so the roof panels will lay flat on the purlins.*

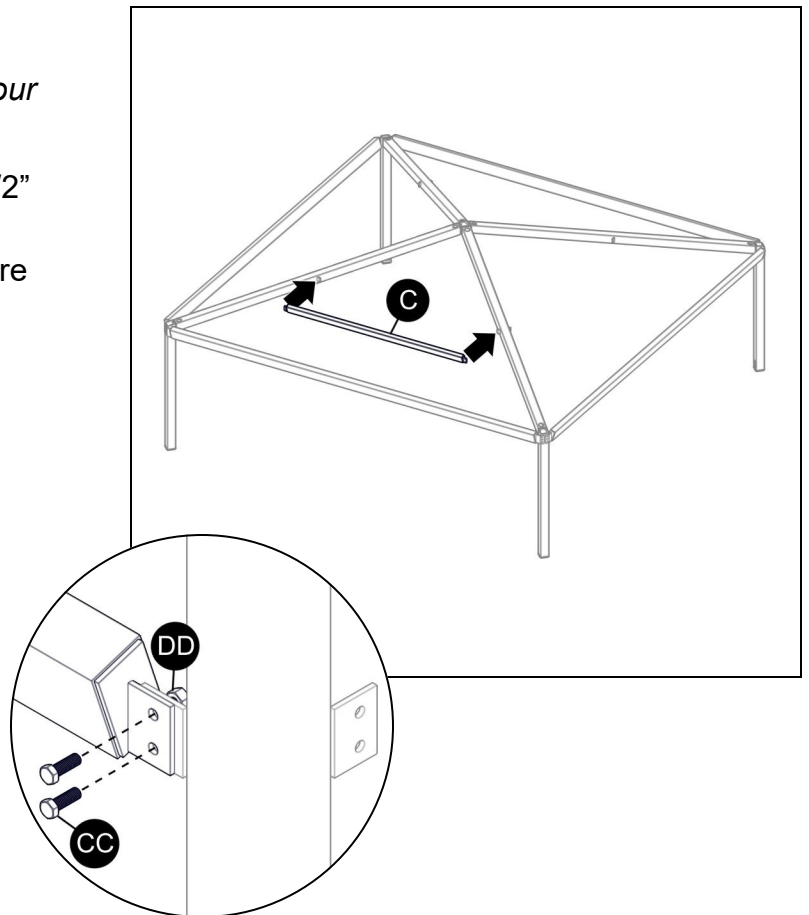
Repeat to install all purlins **(C)**.



OPTIONAL - Upper Purlin Assembly

*Depending on size and loading requirements, your shelter may require additional purlins **(C)**.*

Attach upper purlin **(C)** to rafters **(B)** using (2) 1/2" hex bolts **(CC)** and 1/2" hex nuts **(DD)** at each connection. If the holes in the mounting plates are slotted, 1/2" washers **(EE)** must also be used.



STEP 4

Once the steel frame is completed, tighten all bolts and nuts at each connection.

Position cover plate **(H)** over the access hole at the bottom of post **(A)**. Attach the cover plate to the post using (4) #12 x 1-1/4" screws **(BB)**.

Repeat for all posts **(A)**.

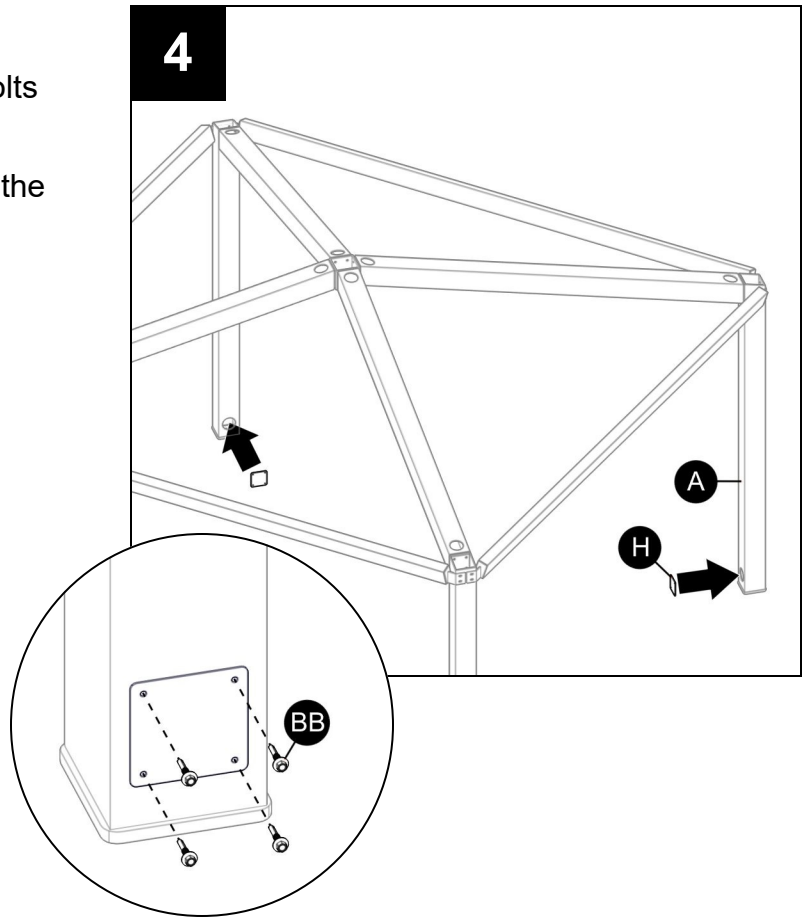
If a cupola was ordered with your shelter, complete cupola assembly on page 10 now.

If installing wood sub-roof:

Go to page 11

If installing roof panels (G), (Q), or (X):

Continue to Step 5



STEP 5

Position ridge cap **(E)** on rafter **(B)** with the straight end of the ridge cap set against the top end of the rafter. Attach using #12 x 1-1/4" screws **(BB)**. See provided manufacturer's drawing for required screw spacing.

NOTE: Occasionally, ridge cap (E) must be made in two pieces. If this happens, install the shortest piece at the top and work down.

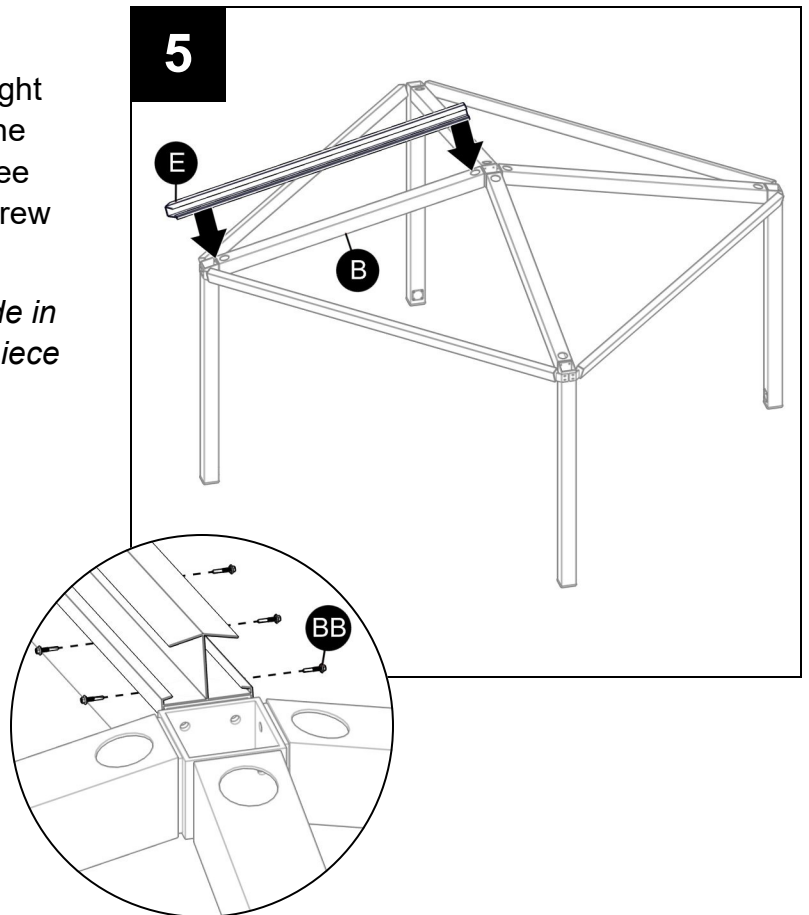
Repeat to install all ridge caps **(E)**.

If installing 'W' style roof panels (G):

Go to page 15

If installing standing seam panels (Q) or (X):

Go to page 17



OPTIONAL - Cupola Assembly

Cupola (**N**) is sent fully assembled.

Center and square cupola (**N**) on rafters (**B**) over tie block (**D**). Attach the cupola to the rafters using (3) #12 x 1-1/4" screws (**BB**) through the pre-drilled holes in the mounting plate at each corner of the cupola.

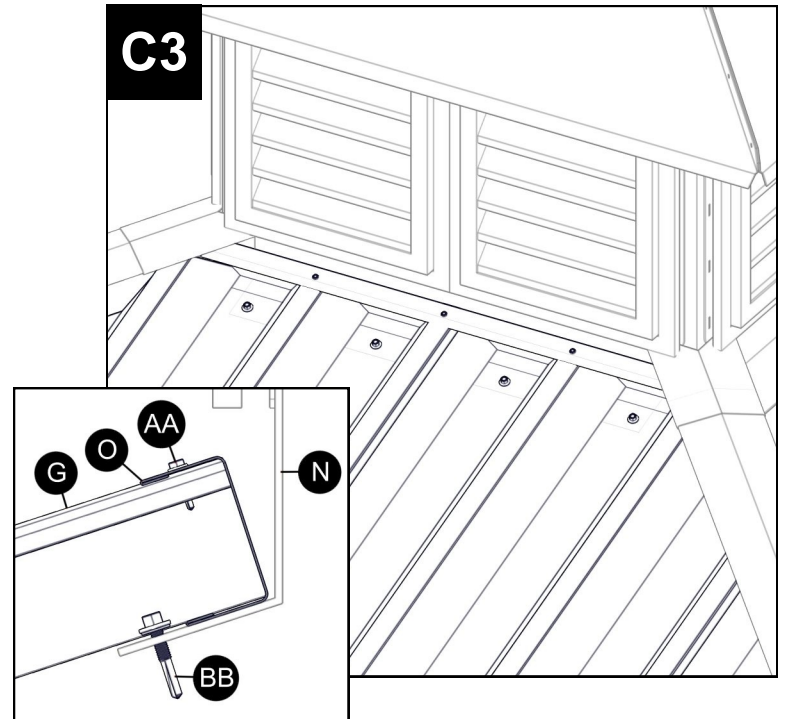
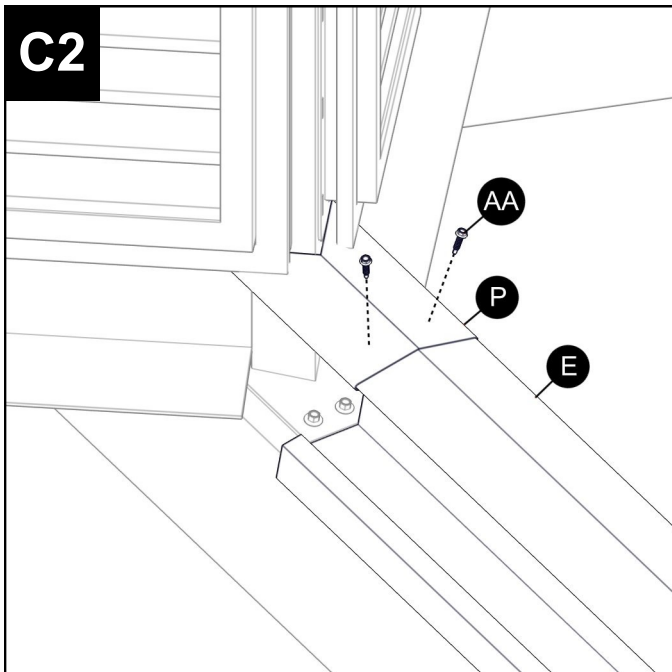
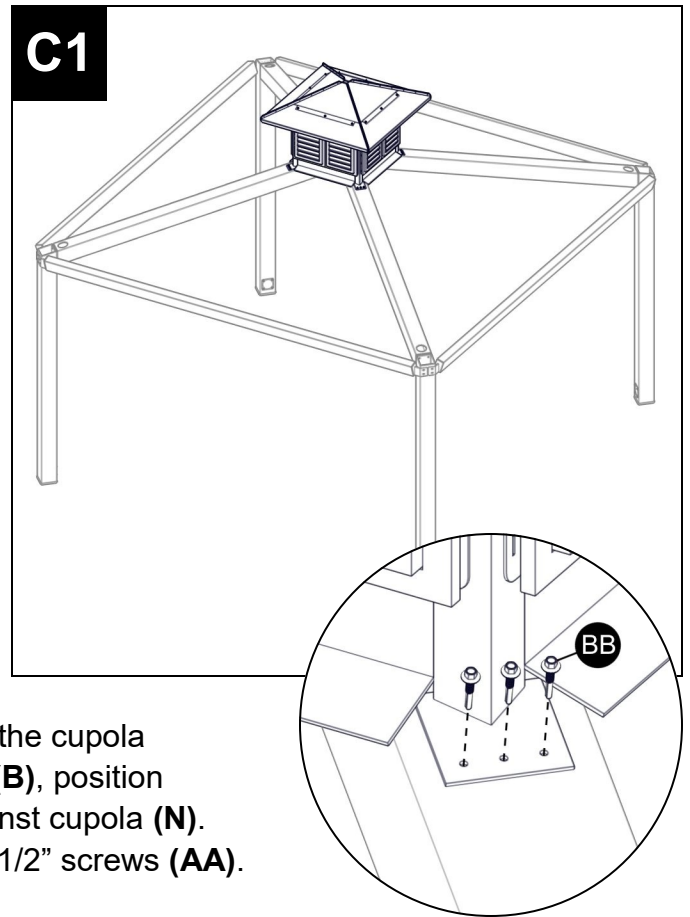
If you ordered a louvered cupola and the louvers are not already installed, remove the louver screw cover cap and attach the louver to the cupola frame using #12 x 1-1/4" screws (**BB**) at each corner of the louver. Then re-attach the screw cover cap.

Continue with Step 5 on page 9

Set the straight end of ridge cap (**E**) against the edge of the cupola mounting plate. Once ridge cap (**E**) is attached to rafter (**B**), position ridge cap flashing (**P**) on top of the ridge cap and fit against cupola (**N**). Attach ridge cap flashing (**P**) to ridge cap (**E**) using #8 x 1/2" screws (**AA**).

Continue until Step 6 on page 15

The longest roof panels (**G**) attach to the bottom flange of cupola (**N**). First, fit cupola flashing (**O**) over the top end of roof panels (**G**), then attach as shown in Step 7. Once all roof panels (**G**) are installed, attach cupola flashing (**O**) to the roof panels using #8 x 1/2" screws (**AA**) at 8" on center.



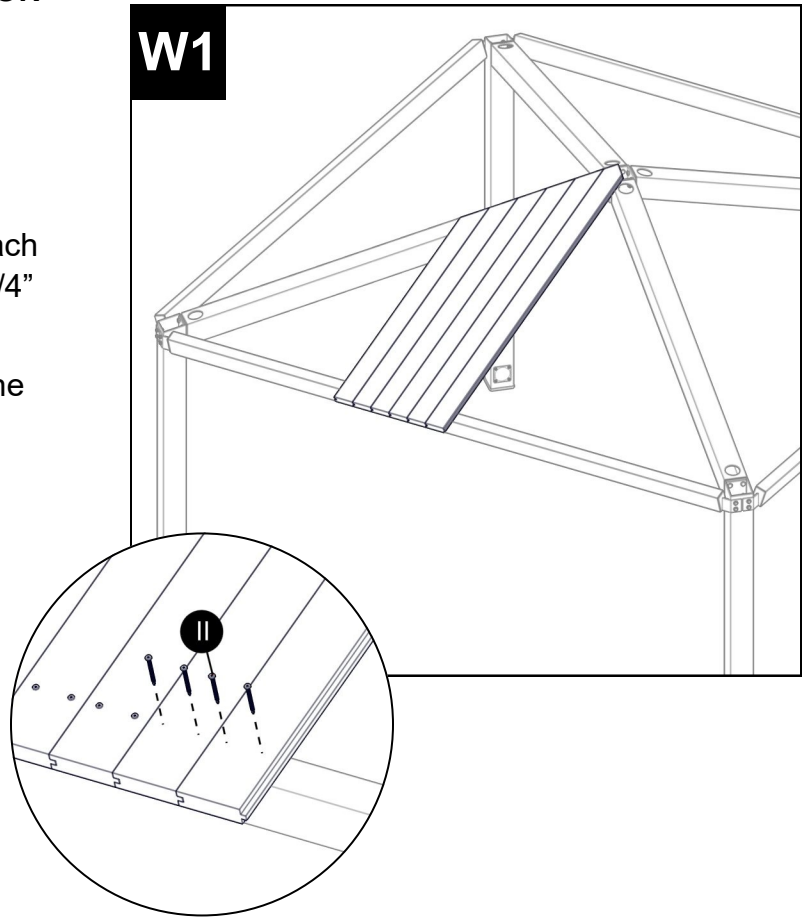
OPTIONAL - WOOD SUB-ROOF INSTALLATION WITH 18" STANDING SEAM PANELS

STEP W1

Boards for the wood sub-roof are sent in stock lengths and must be cut to fit in the field.

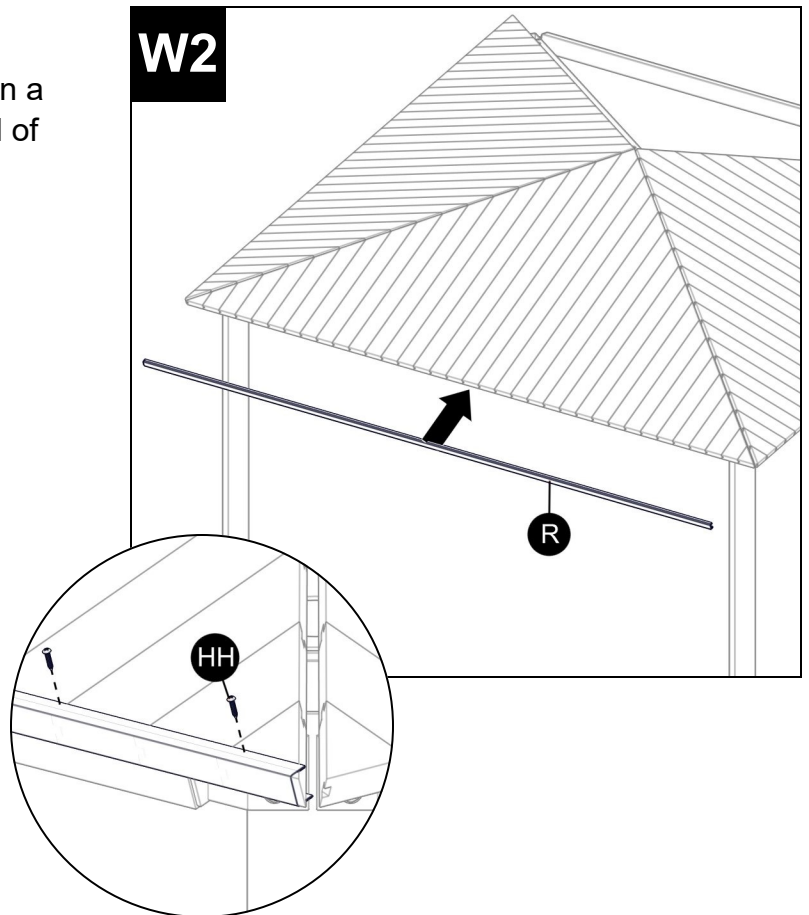
Cut and place the wood decking in position. Attach to rafters (**B**) and purlins (**C**) using (2) #14 x 2-3/4" wing-tip screws (**II**) at each connection.

Repeat to install the wood sub-roof in at least one complete section of the roof.



STEP W2

Once the wood sub-roof is completely installed in a roof section, attach C Cap (**R**) to the bottom end of the boards using #10 x 1" screw (**HH**) at 12" on center.

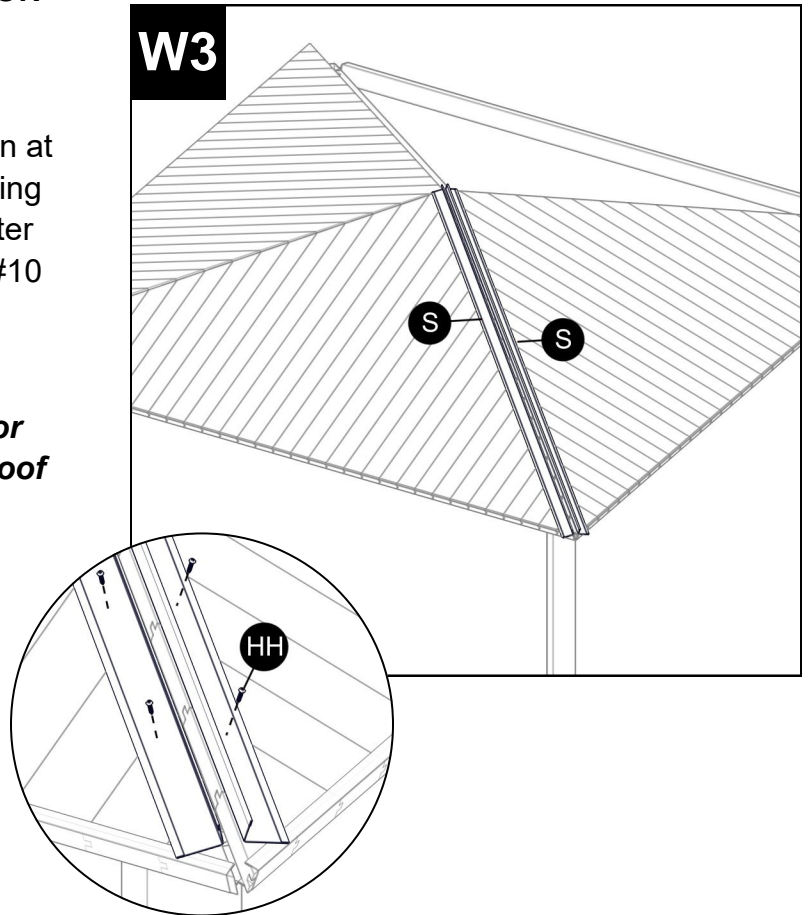


OPTIONAL - WOOD SUB-ROOF INSTALLATION WITH 18" STANDING SEAM PANELS

STEP W3

Once the wood sub-roof is completely installed in at least two adjacent roof sections, position L flashing (**S**) back-to-back along each ridge, over the center of rafter (**B**). Attach to the wood sub-roof using #10 x 1" screw (**HH**) at 12" on center.

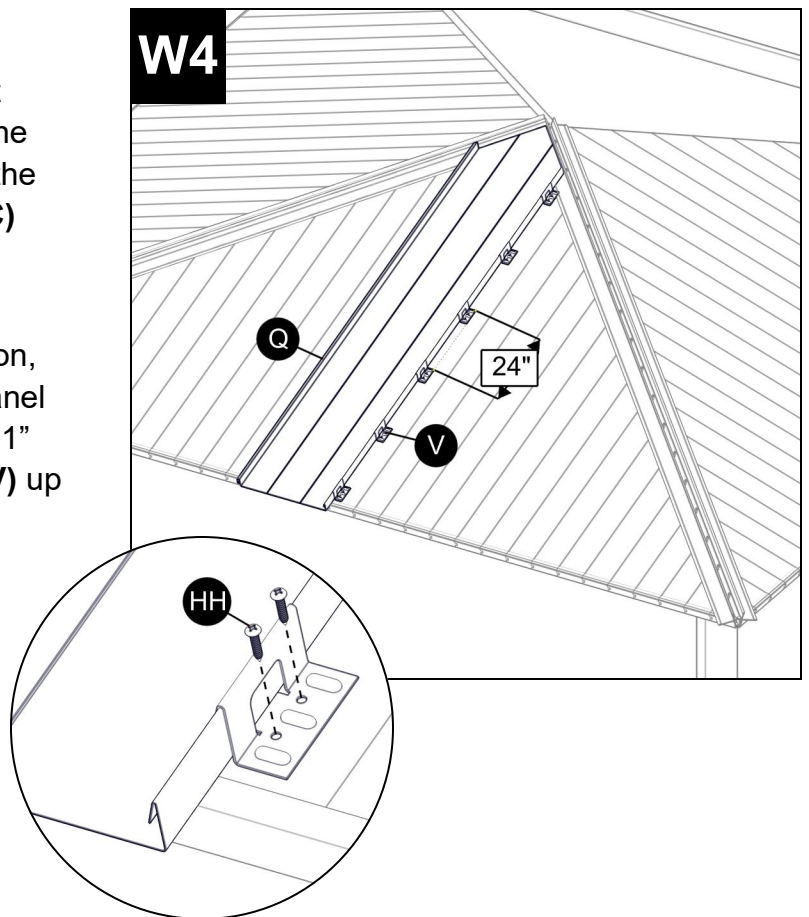
Continue to install standing seam panel (Q) or go to Step 6 on page 15 to install 'W' Style Roof Panel (G).



STEP W4

Begin roof panel (**Q**) installation with the longest panel. Set the panel on the shelter and line up the center of the panel lock at the pointed end with the center of tie block (**D**) and the center of purlin (**C**) (see Step 6 for detail). Recommended minimum overhang is 1".

With the roof panel (**Q**) held in the correct position, fit mounting clip (**V**) over the small lock of the panel and attach to the wood sub-roof using (2) #10 x 1" screws (**HH**). Attach additional mounting clips (**V**) up the length of the panel at 24" on center.



OPTIONAL - WOOD SUB-ROOF INSTALLATION WITH 18" STANDING SEAM PANELS

STEP W5

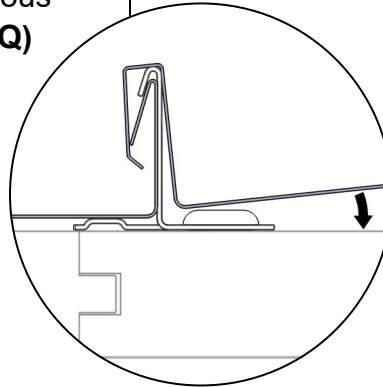
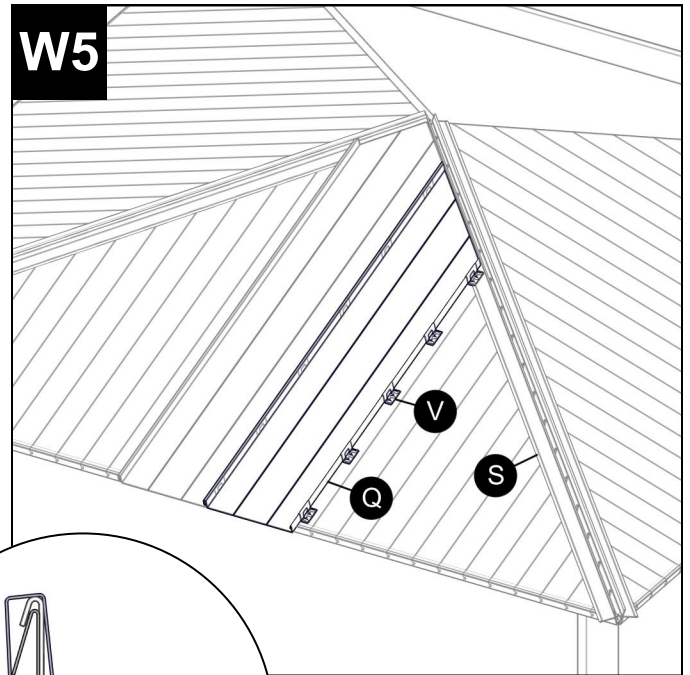
Position the next roof panel (**Q**) over the lock of the panel already installed and snap the locks together.

Use L flashing (**S**) as a guide up the ridges and keep the bottom of the panels flush. As each panel is installed, repeat Step W4 to attach mounting clips (**V**).

Repeat to install remaining roof panels (**Q**).

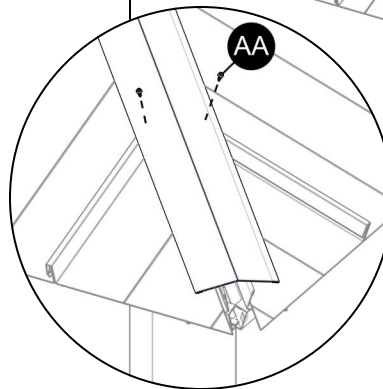
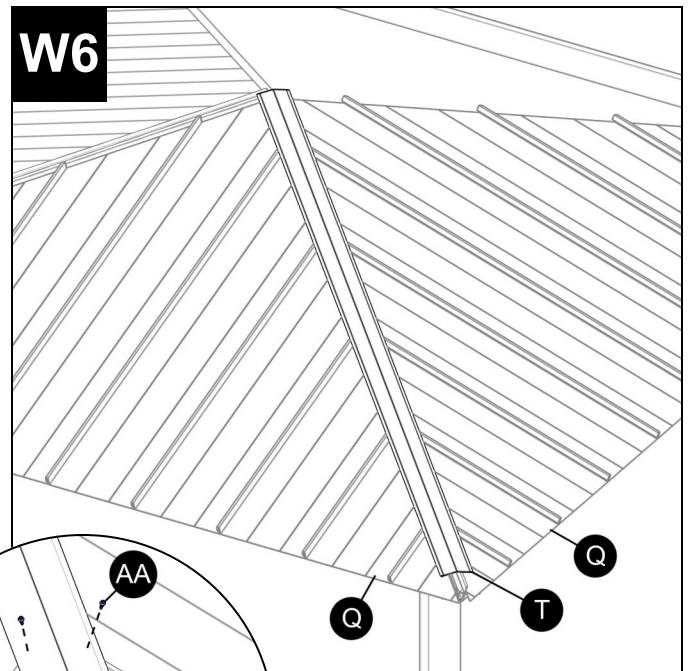
As each roof panel (**Q**) is installed, or after all panels in a section are installed, apply a continuous bead of caulk at the ridge between roof panels (**Q**) and L flashing (**S**).

NOTE: To achieve best roof panel installation, it is very important to hold the 18" center-to-center spacing of the roof panel locks at the top and bottom of the panels.



STEP W6

Once two adjacent roof panel sections are completed, position V flashing (**T**) along the ridge. Attach to each lock of roof panels (**Q**) using #8 x 1/2" screw (**AA**).

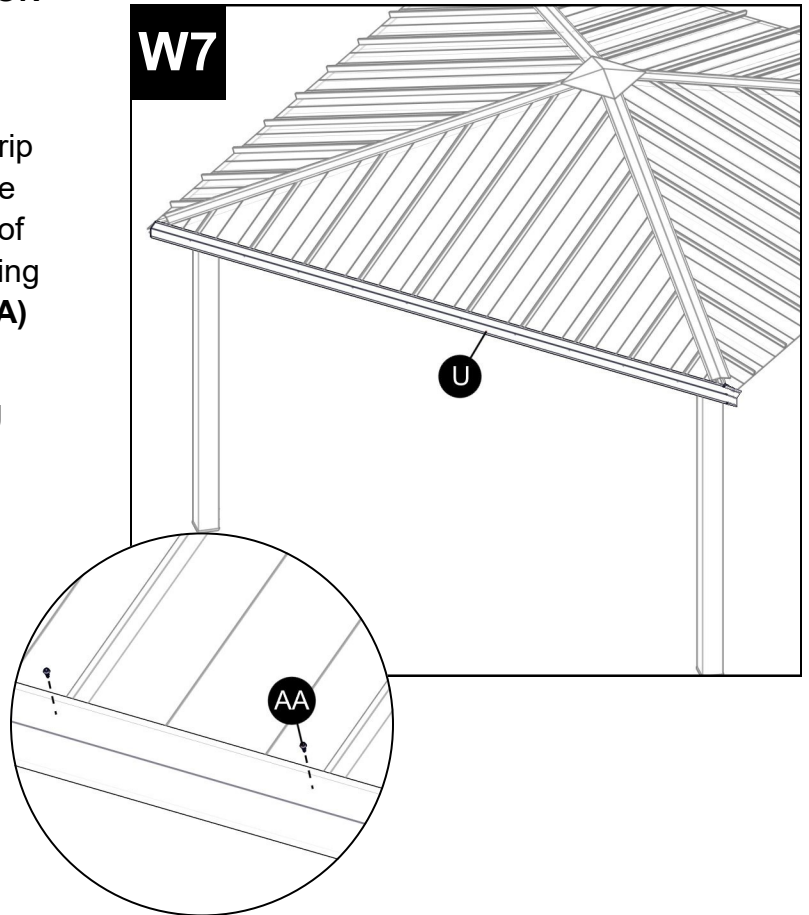


OPTIONAL - WOOD SUB-ROOF INSTALLATION WITH 18" STANDING SEAM PANELS

STEP W7

Once all roof panels (**Q**) are installed, position drip edge flashing (**U**) over the bottom end. Allow one side of the flashing to overhang the bottom end of the adjacent roof section. Attach drip edge flashing (**U**) to roof panels (**Q**) using #8 x 1/2" screws (**AA**) at 18" on center.

Repeat to install all remaining drip edge flashing (**U**).

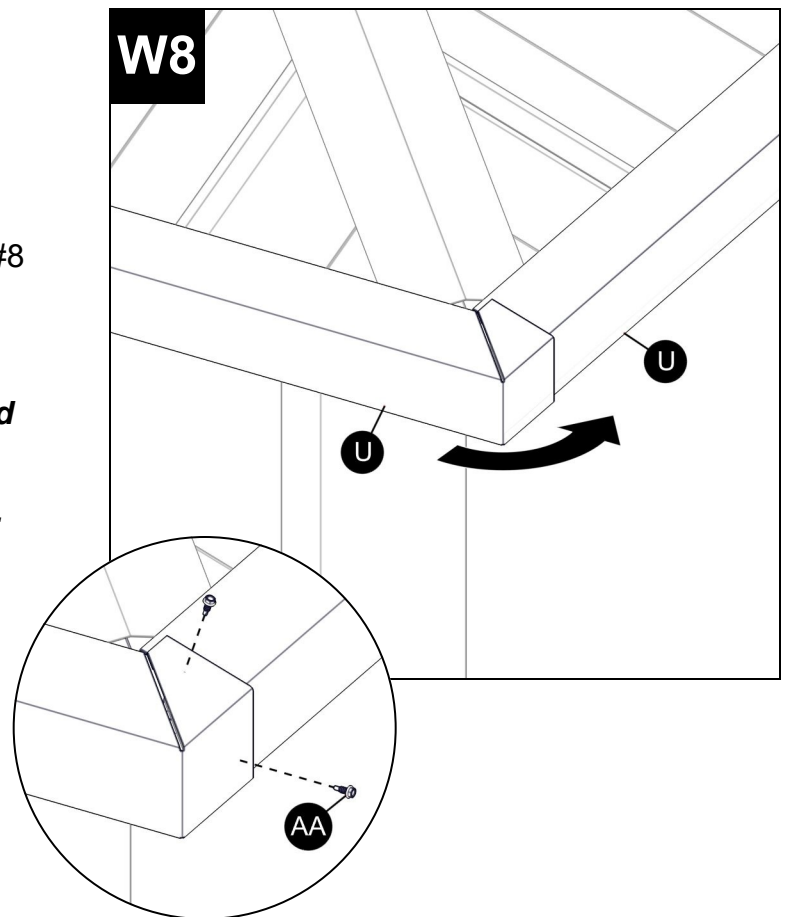


STEP W8

At the overhanging end, notch the top leg of drip edge flashing (**U**) approximately even with the bottom end of the adjacent roof section. Bend the extra material over to form a corner with the adjacent drip edge flashing (**U**) and attach using #8 x 1/2" screws (**AA**).

To complete assembly, install peak cap (J) and base cap (K) as shown in Step 9 on page 16.

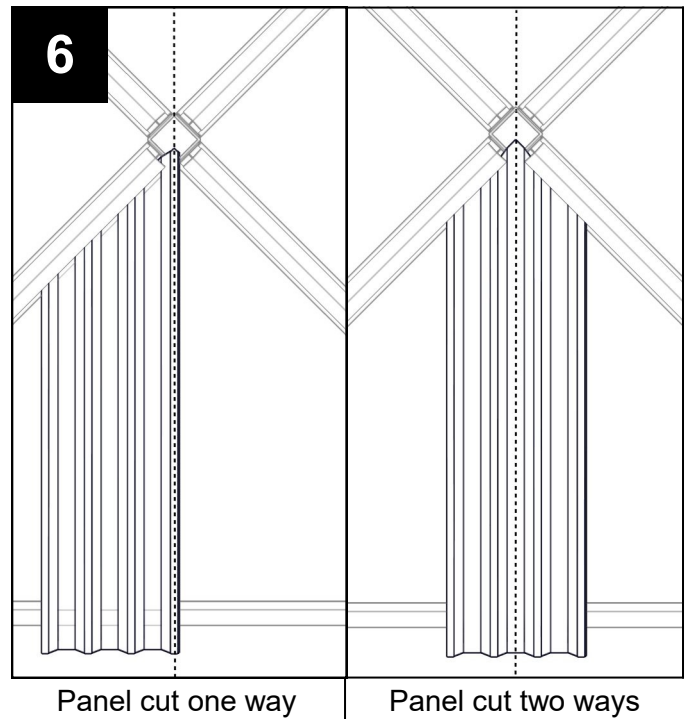
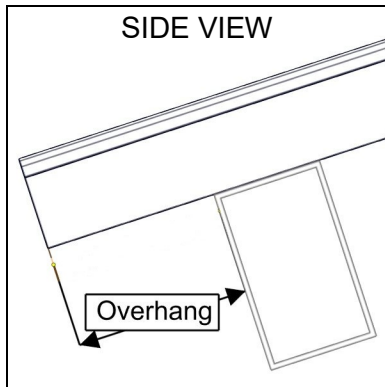
See "Assembly Completed" notes on page 20.



STEP 6

Begin roof panel (**G**) installation with the longest panel. Set the panel on the shelter and line up the center of the panel lock at the pointed end with the center of tie block (**D**) and the center of purlin (**C**).

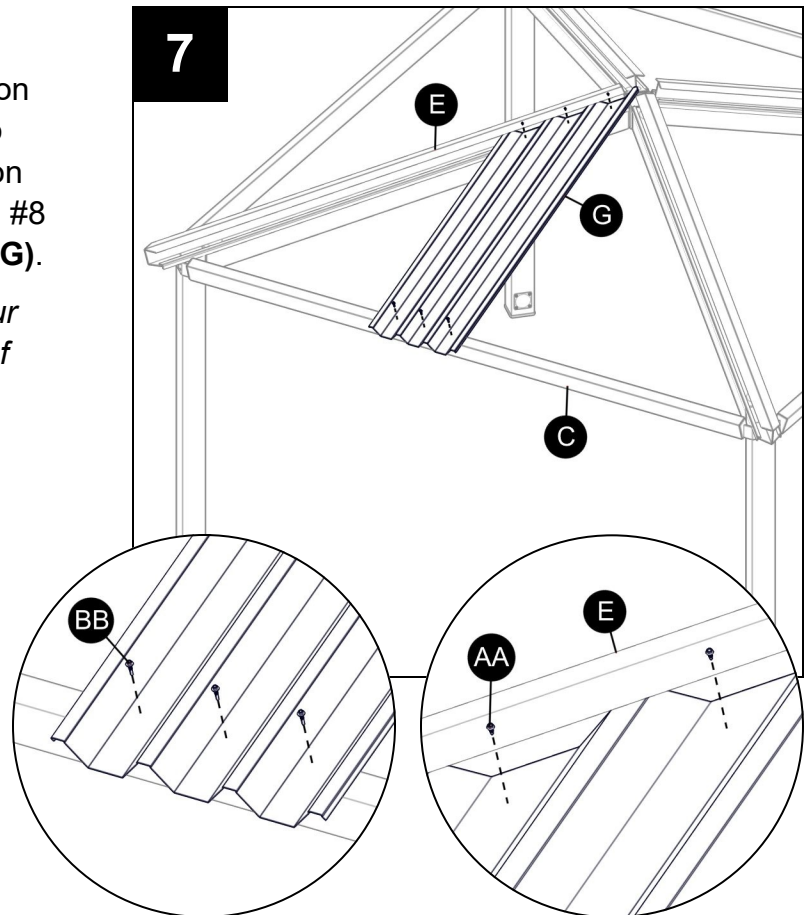
Fit the roof panel (**G**) into ridge cap (**E**) and match the overhang from purlin (**C**) with the dimension shown on the provided manufacturer's drawing. Keep the bottom end of the panel parallel with purlin (**C**).



STEP 7

With the roof panel (**G**) held in the correct position as described in Step 6, attach the bottom end to purlin (**C**) using #12 x 1-1/4" screws (**BB**) at 8" on center. Attach the top end to ridge cap (**F**) using #8 x 1/2" screws (**AA**) at each valley of roof panel (**G**).

*NOTE: Depending on loading requirements, your shelter may require (2) screws (**BB**) at each roof panel valley into purlin (**C**). Check the provided manufacturer's drawing.*



STEP 8

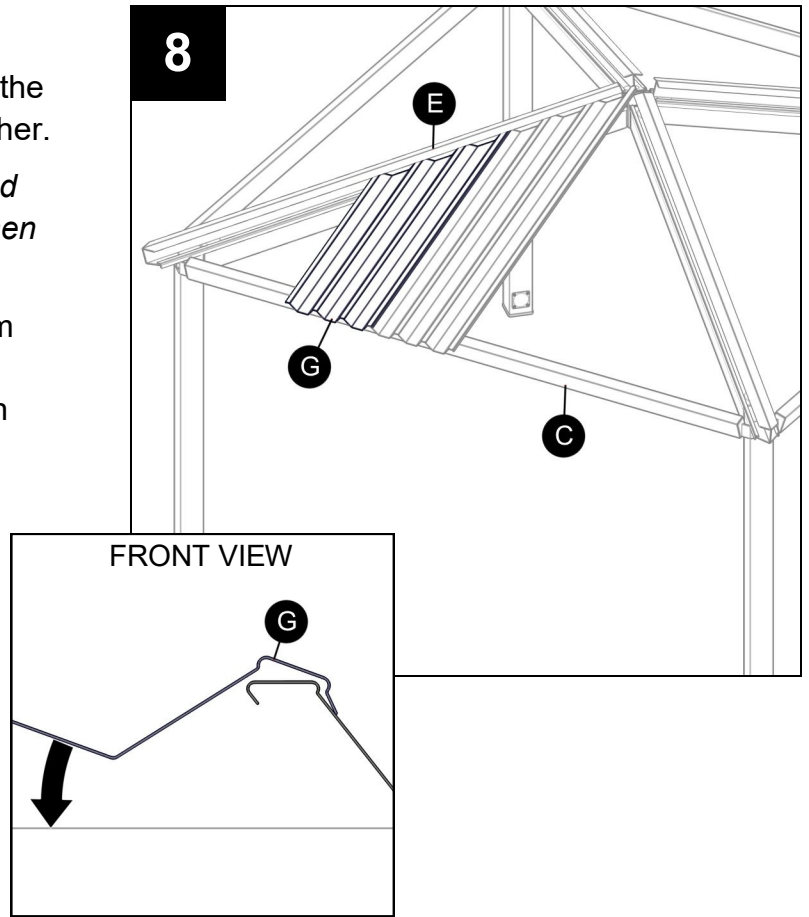
Position the next roof panel (**G**) over the lock of the panel already installed and snap the locks together.

HINT: Holding a spare board under the locks and tapping on top with a rubber mallet may help when joining roof panels.

Slide the panel into ridge cap (**E**) until the bottom end is flush with the previous panel. Attach the panel to purlin (**C**) and ridge cap (**E**) as shown in Step 6.

Repeat until all roof panels (**G**) are installed in one section of the roof.

NOTE: To achieve best roof panel installation, it is very important to hold the 24" center-to-center spacing of the roof panel locks at the top and bottom of the panels.



STEP 9

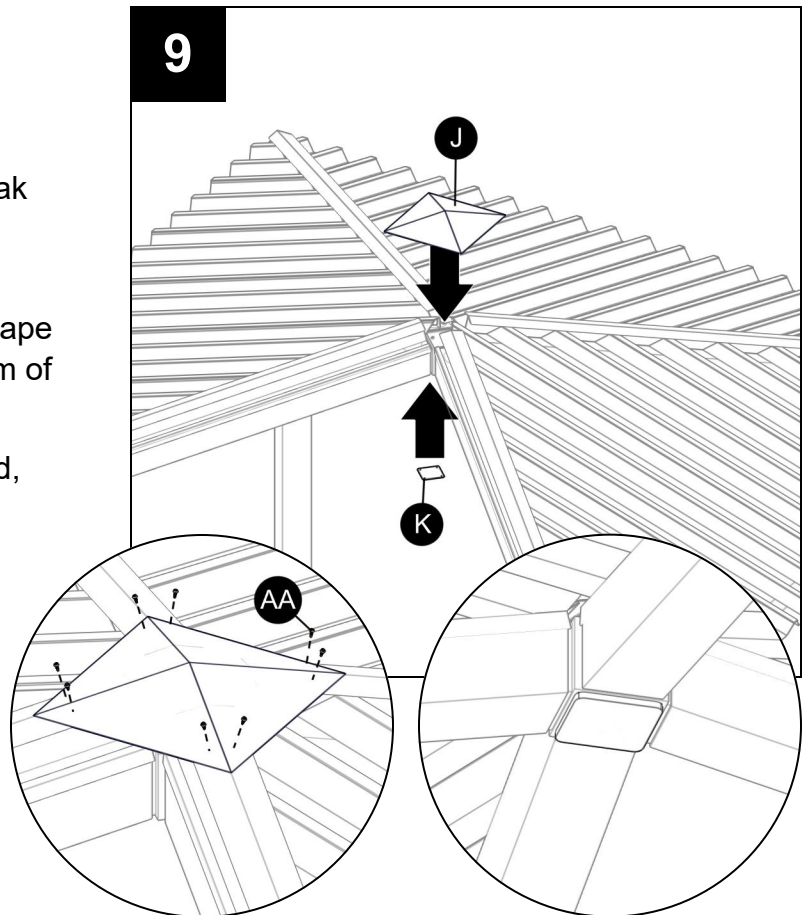
Repeat Steps 6-8 to complete roof panel (**G**) installation in two more sections of the roof.

Before installing the final roof section, attach peak cap (**J**) to ridge caps (**E**) using #8 x 1/2" screws (**AA**).

Apply double-sided, self-adhesive construction tape to base cap (**K**). Fit the base cap over the bottom of tie block (**D**) and secure in position.

After peak cap (**J**) and base cap (**K**) are installed, repeat Steps 6-8 again to install the remaining roof section.

Continue with Step 10 on page 19



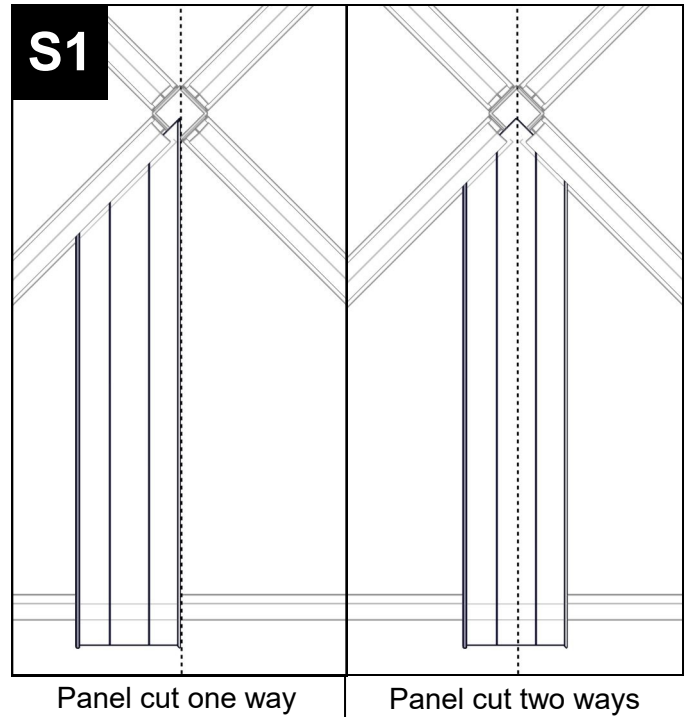
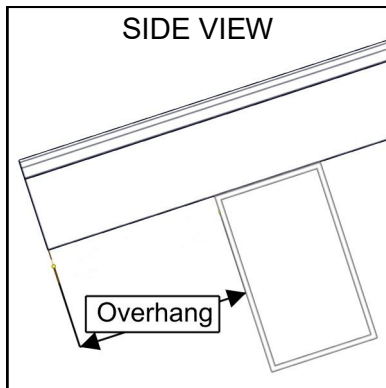
OPTIONAL - STANDING SEAM ROOF PANELS

Follow the steps below to install standing seam roof panels 18" wide (Q) or 8" wide (X). 18" wide (Q) is shown.

STEP S1

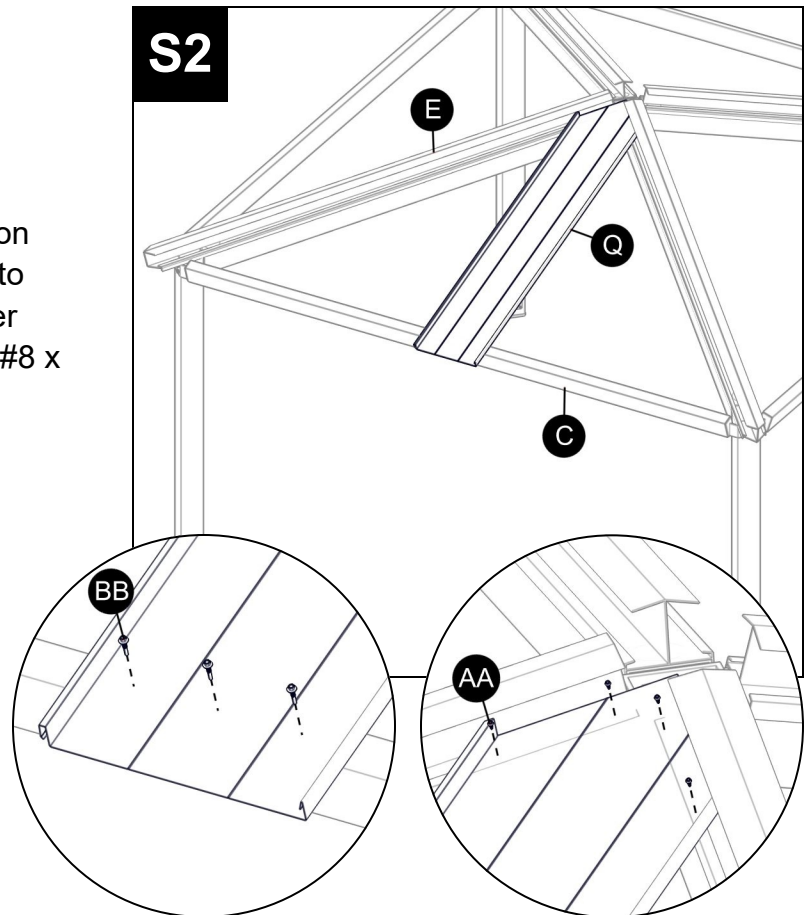
Begin roof panel (Q) installation with the longest panel. Set the panel on the shelter and line up the center of the panel lock at the pointed end with the center of tie block (D) and the center of purlin (C).

Fit the roof panel (Q) into ridge cap (E) and match the overhang from purlin (C) with the dimension shown on the provided manufacturer's drawing. Keep the bottom end of the panel parallel with purlin (C).



STEP S2

With the roof panel (Q) held in the correct position as described in Step S1, attach the bottom end to purlin (C) using #12 x 1-1/4" screws (BB), (3) per panel. Attach the top end to ridge cap (F) using #8 x 1/2" screws (AA), (3) per panel.



OPTIONAL - STANDING SEAM ROOF PANELS

STEP S3

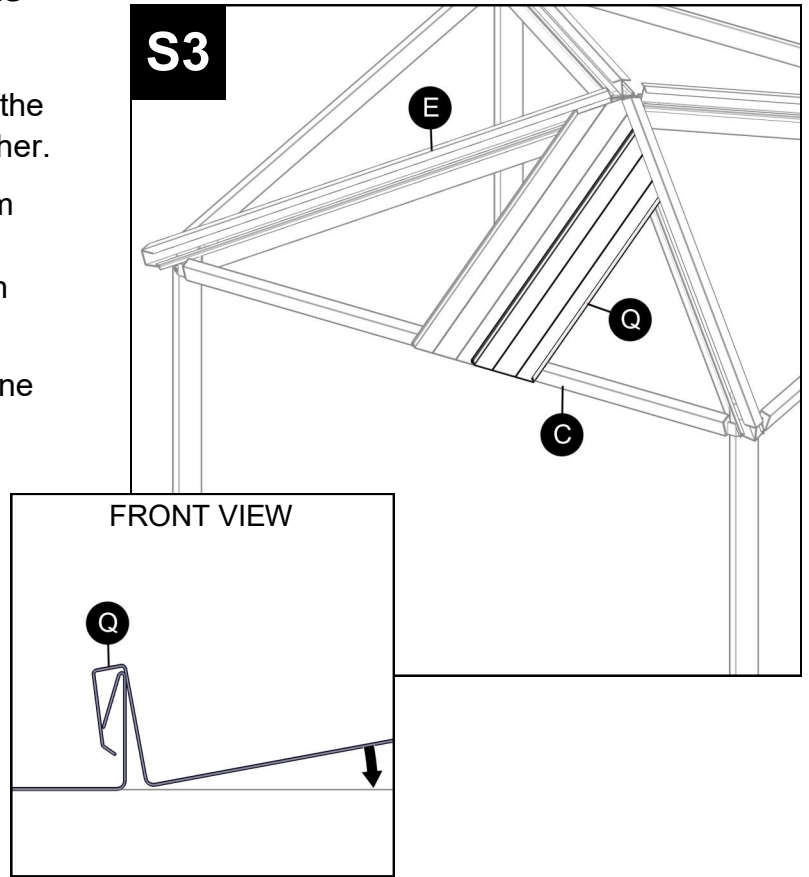
Position the next roof panel (**Q**) over the lock of the panel already installed and snap the locks together.

Slide the panel into ridge cap (**E**) until the bottom end is flush with the previous panel. Attach the panel to purlin (**C**) and ridge cap (**E**) as shown in Step s2.

Repeat until all roof panels (**Q**) are installed in one section of the roof.

NOTE: To achieve best roof panel installation, it is very important to hold the 18" center-to-center spacing of the roof panel locks at the top and bottom of the panels.

Repeat Steps S1-S3 to install two more sections of the roof. Before installing the final roof section, complete Step 9 on page 16.

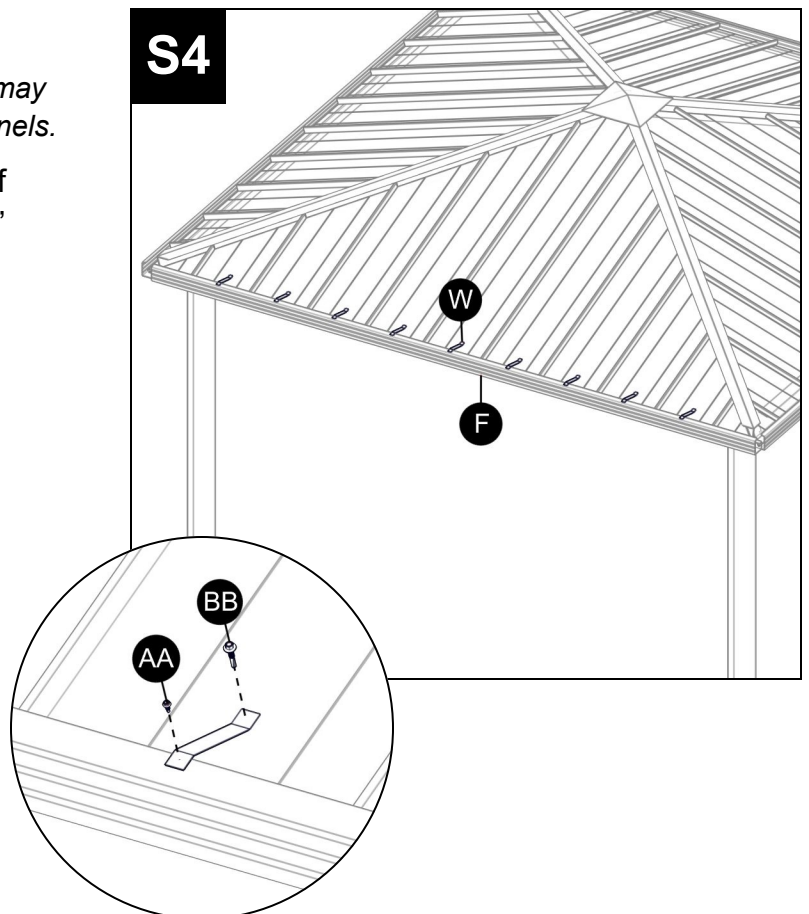
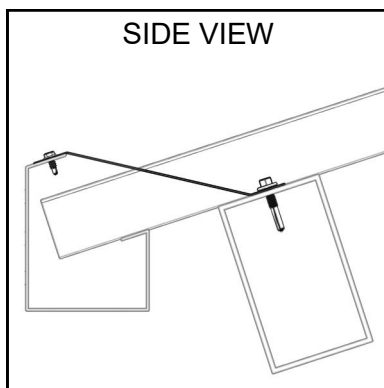


STEP S4 - OPTIONAL GUTTER STRAPS

Depending on loading requirements, special straps may be required to attach the gutter to standing seam panels.

Position a gutter strap (**W**) at the center of a roof panel (**Q**). Attach to purlin (**C**) using #12 x 1-1/4" screw (**BB**). Attach to gutter (**F**) using #8 x 1/2" screw (**AA**).

Continue with Step 11 on page 20



STEP 10

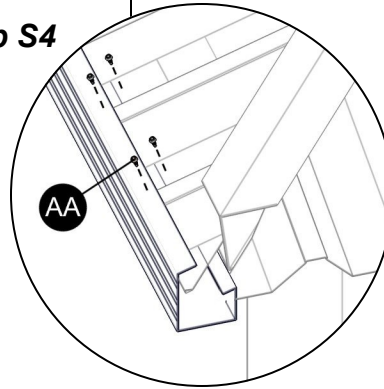
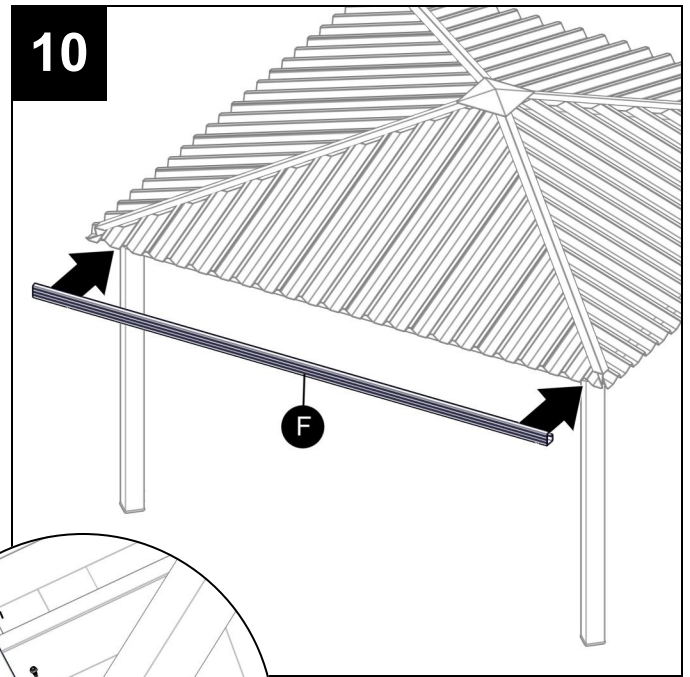
Position gutter (F) over the bottom end of roof panels (G). The inside of gutter (F) should be as close as possible to the angle-cut end of ridge cap (E). For proper fit, stagger the gutters around the shelter as shown below.

With gutter (F) held in position, attach the bottom and top lips to roof panels (G) at 8" on center using #8 x 1/2" screws (AA).

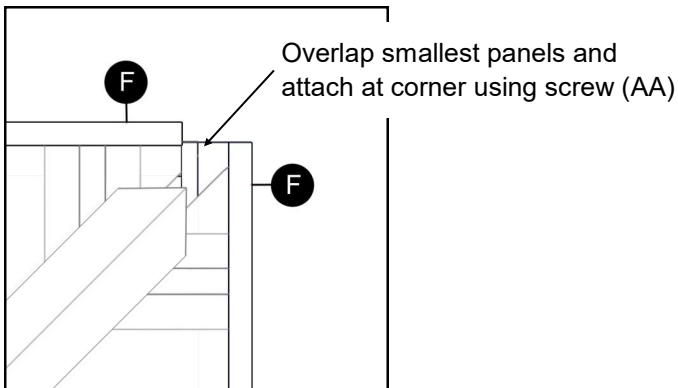
Repeat to install all gutters (F).

If installing standing seam panels, go to Step S4 on page 18 if gutter straps are required.

Otherwise, continue with Step 11



PLAN VIEW

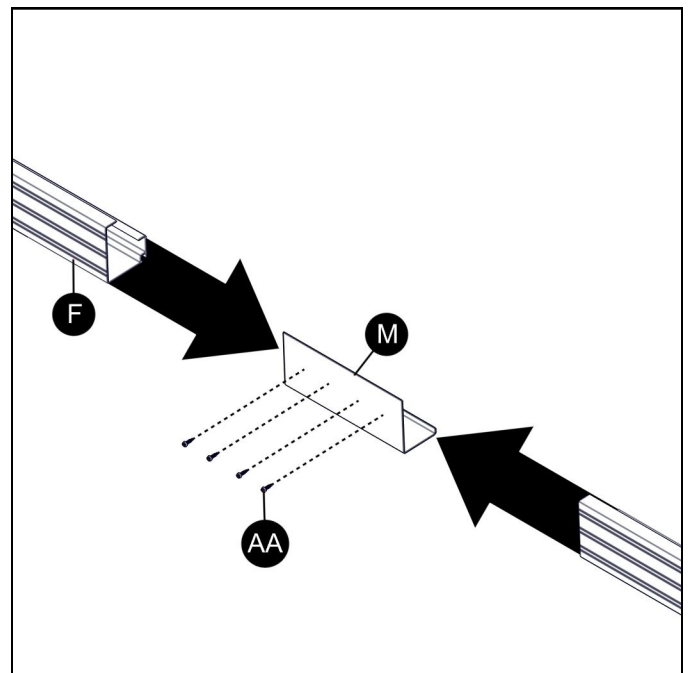


OPTIONAL - Gutter Splice

Complete this step only if gutter (F) is in two or more pieces.

Apply a generous amount of caulk to the back and bottom of gutter splice (M) to prevent leaks. Insert an equal amount of the splice into the ends of the gutters (F).

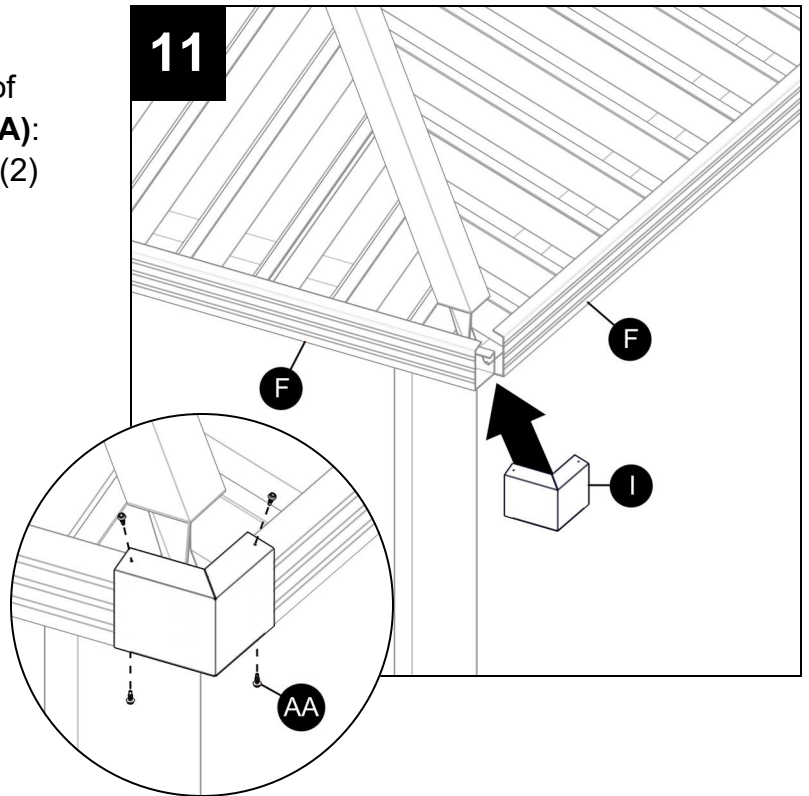
Attach gutter (F) to gutter splice (M) using (4) #8 x 1/2" screws (AA).



STEP 11

Fit corner cap **(I)** over gutters **(F)** at any corner of the shelter. Attach using (6) #8 x 1/2" screws **(AA)**: (2) through the top, (2) through the bottom, and (2) on the inside through the pre-drilled holes.

Repeat to install all corner caps **(I)**.



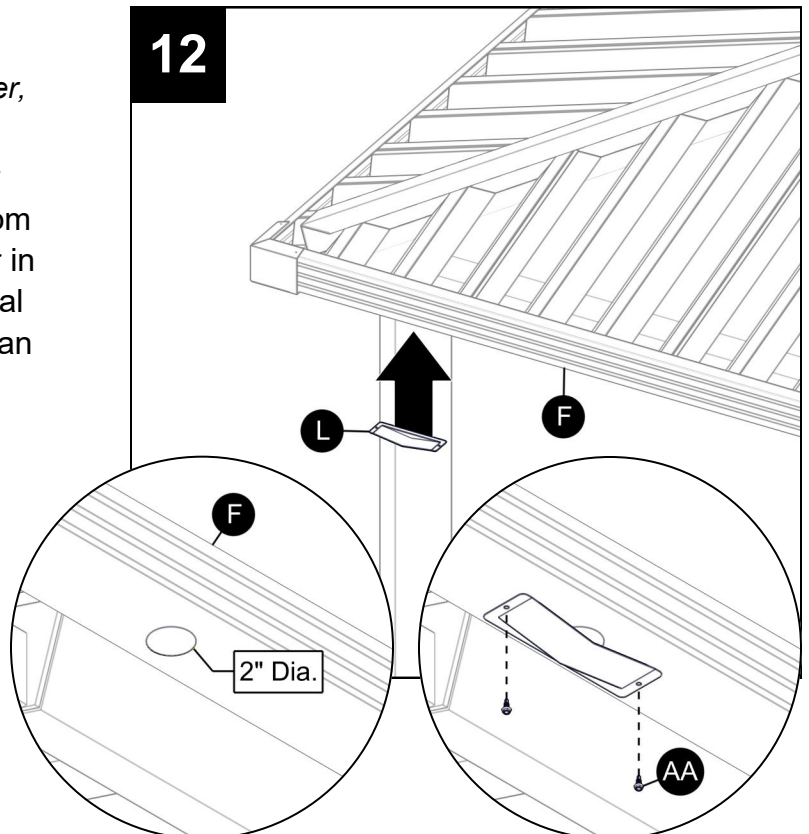
STEP 12

*If optional downspout kit was received with your order, you may not have received scupper **(L)**. Follow the separate downspout assembly instructions attached.*

Determine the desired location to drain water from gutter **(F)**. Cut a hole no bigger than 2" diameter in the bottom of the gutter. Alternatively, drill several small holes in a rectangular pattern no bigger than 2" x 3".

Apply a generous bead of caulk around the top flange of scupper **(L)**. Attach the scupper to gutter **(F)** using (2) #8 x 1/2" screws **(AA)**.

Repeat for any remaining scuppers **(L)**.



ASSEMBLY COMPLETED

- Touch up paint has been supplied with the shelter to cover minor scratches or bolt and screw heads. Use a template to achieve a good finish and minimize over-spray.
- Be sure to sweep or brush all metal shavings off the shelter and leave the shelter in a clean condition to help prevent the rusting or staining of the surface finish.

Warranty

What the Warranty Covers:

The manufacturer warrants its products that have been installed in accordance with the installation guidelines, under normal usage conditions, and with proper maintenance as follows: Twenty-five (25) year limited warranty on steel against material failure and defects. Ten (10) year warranty against peeling, cracking, blistering, or crazing of the surface finish of aluminum and steel components. One (1) year warranty against defects in materials and workmanship.

Period of Coverage:

The warranty period begins on the date of original shipment.

What The Manufacturer Will Do To Correct Problems:

If defects or damage of the kind mentioned above should occur within the warranty period, the manufacturer will replace the defective parts only; upon receiving the written and documented claim of purchaser.

What the Warranty Excludes:

Because of normal aging and weathering of materials, it may not be possible to perfectly match the colors of original parts and replacement parts. The manufacturer will not provide or pay for the installation of such replacement parts. The manufacturer shall not be responsible for weather related failures, damages due to faulty installation, misuse or abuse of the product, or for consequential damages, including personal injuries or property damages. There are no warranties, express or implied, which extend beyond the description on the face hereof.

How Do You Get Service:

If you believe that you have a claim under this warranty, submit a copy of your original receipt or other reasonable evidence of the date of purchase, the identity of the product, and photos and a description of the allegedly defective product to the address below. Please also include your name, address, and phone number so that a customer service representative can respond to your submission. Ultimate determination of the existence and extent of any claimed defect under this warranty shall be made by the manufacturer in its sole discretion.

General Awnings LLC
888-330-3115
support@generalawnings.com