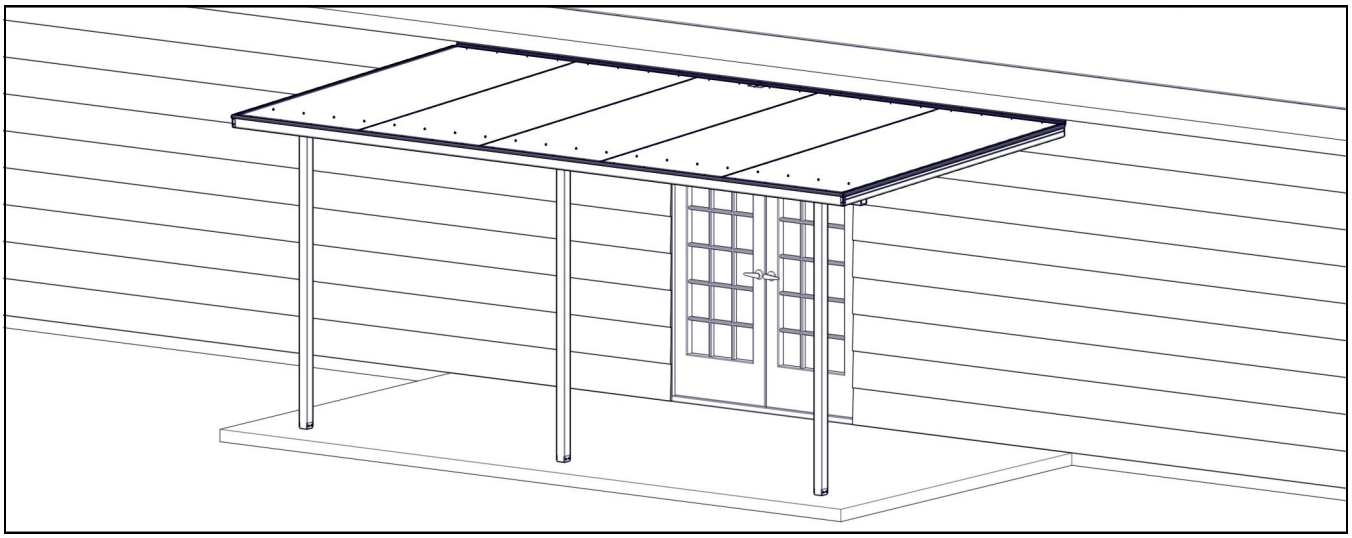
YUKON PATIO COVER

INSTALLATION INSTRUCTIONS



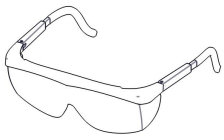
Before You Begin:

- **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. We are not responsible for replacing parts lost or damaged due to incorrect assembly.
- **A solid attachment is required for all existing structures**
  All points of attachment to existing structures (such as house, deck, or patio) must be into solid, structurally sound, and secure material. Example: wood or metal studs, joists, headers, plates, or sills.
  Attachment may be made to block, concrete, brick, or stone veneer with suitable anchors, purchased separately. **Note:** Failure to properly fasten unit to wall, deck, porch, or patio may result in damage to the unit, damage to the structure it is attached to, and could cause serious bodily injury.
- **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.
- **Assistance may be required during certain steps of assembly.**

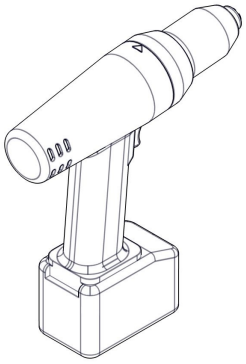
⚠ CAUTION

- 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.

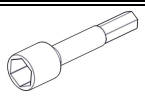
Tools Needed for Installation



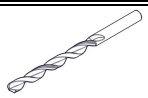
Safety Glasses



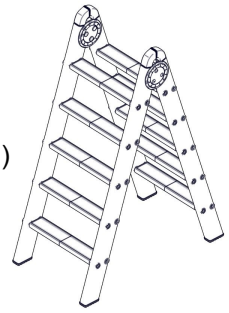
Electric Drill



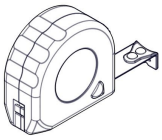
Socket / Hex Head Driver
Sizes: 1/4”, 5/16”,
3/8”, 7/16”



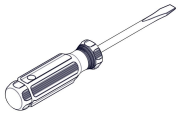
Drill Bit
Sizes: 1/8”, 3/16”,
1/4”, 5/8” (optional)



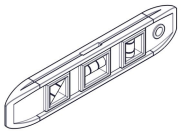
Ladder



Tape Measure



Screw Driver
Flat & Phillips



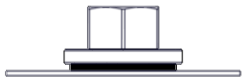
Carpenters Level

Other Required Tools: Gloves, Chalk Line, Silicone Caulking

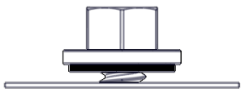
Recommended Tools: Rubber Mallet, Carpenters Square, Pliers, Metal Hack Saw

Installation Notes and Tips

- Complete site preparation before beginning assembly.
- DO NOT attempt to assemble on a day with strong winds.
- Have assistance nearby to lift and secure parts in place.
- 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.
- 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.

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.*

Table of Contents

Safety Information

- Please read and understand this entire manual before attempting to assemble or install the product.
- Standard design for shade structures manufactured by us meets 20 lbs. per square foot live load and 90 miles per hour wind load based on the International Building Code (IBC) 2009 and American Society of Civil Engineers (ASCE) 7-05 design code. Engineering for greater load requirements is available; call 1-888-442-2928 for information. Local building codes should be verified before installation.
- The design of the shade structure as set forth herein pertains only to the components and assemblies as manufactured by us. The design of and attachment to supporting structural elements are outside the scope of this guide. It shall be the Owner and Installer's responsibility to provide sound supporting structure and attachment and to consult with qualified individuals where the design or verification of such components is required.
- It shall be the Owner and Installer's responsibility to verify that local building code requirements are met and the proper permits are obtained prior to the installation. Professional engineering services may be required.

Site Preparation
(Materials NOT supplied with kit)

Note: Site preparation is required for this shade structure. *Placing posts on a footing is highly recommended. Without footings, settling could occur. The manufacturer is not responsible for replacing parts damaged or property lost due to incorrect assembly.*

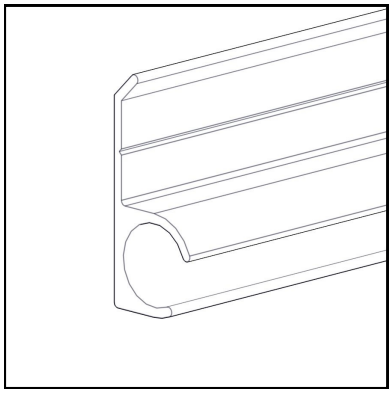
Complete the site preparation and footings before unpacking parts and beginning assembly.

To prepare your shade structure site, follow the steps below:

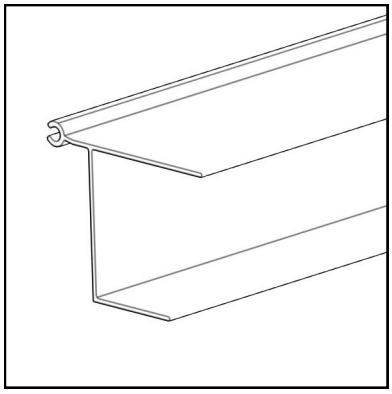
1) Consult your local authorities for building codes and covenants before beginning foundation or installing shade structure.
2) Before any digging, check with local utilities to determine the location of buried cables, pipes, etc.
3) Minimum soil bearing strength at shade structure location is 1000 pounds per square foot. Actual soil conditions at shade structure location shall be verified and the specific footing requirements shall be designed by a qualified designer. It is the Owner and Installer's responsibility to verify soil conditions and requirements for compliance with local building codes.

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

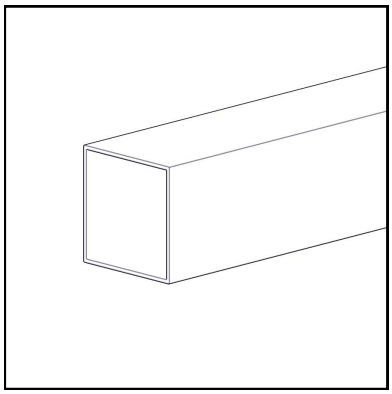
Parts List



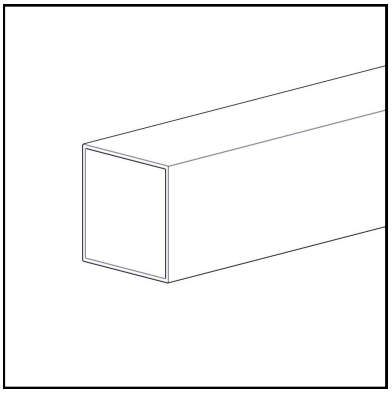
A Awning Rail
Part Code: 11610



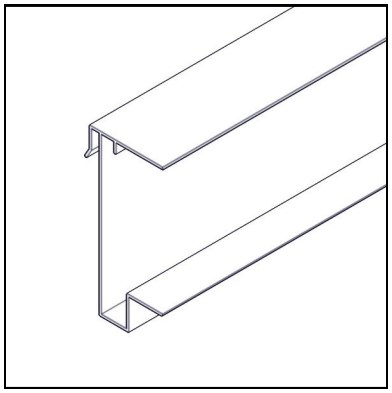
B Mounting Channel
Part Code: 11678



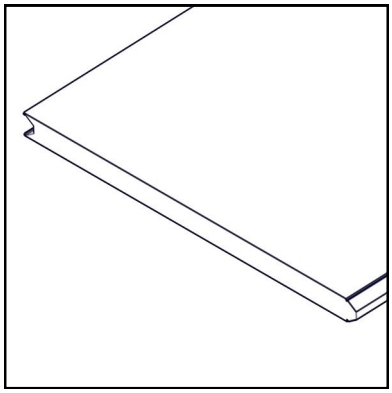
C Post - 3” x 3”
Part Code: 11270



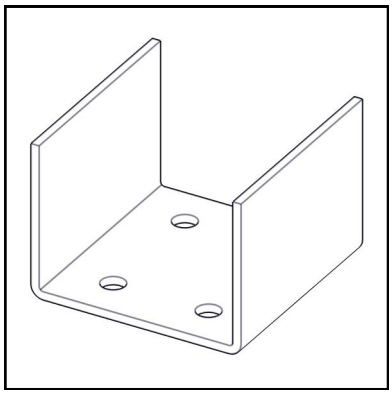
D Header - 3” Box Beam
Part Code: 11252



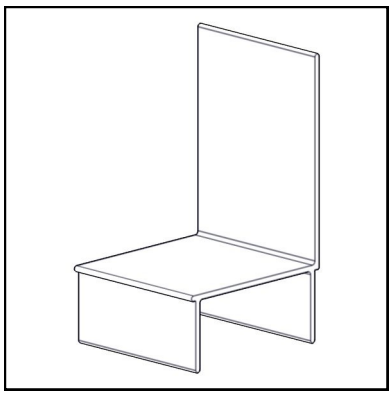
E Fascia Trim
Part Code: 11300



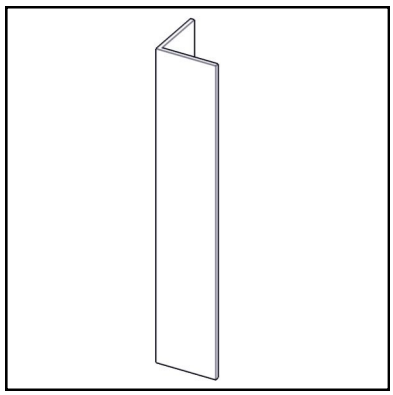
F Roof Panel
Part Code: 90395 (48”)
90291 (24”)



G Post Mounting Bracket
Part Code: 50100



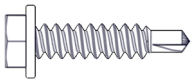
H Header Mounting Bracket
Part Code: 50101



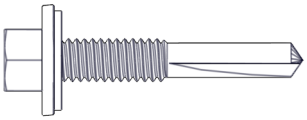
I Corner Cap
Part Code: 60636

Screws shown actual size.

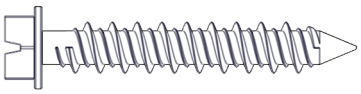
Hardware List



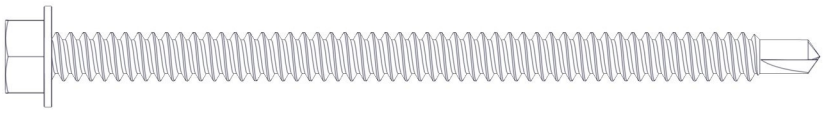
AA #8 x 3/4” Screw
Part Code: 20123



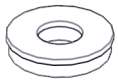
BB #12 x 1-1/4” Screw
Part Code: 20201



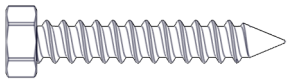
CC 1/4” x 1-3/4” Tapcon Anchor
Part Code: 20794



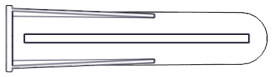
DD #14 x 4” Tek Screw
Part Code: 20153



EE 1/4” Sealing Washer
Part Code: 20903



FF 1/4” x 1-1/2” Lag Screw
Part Code: 20423



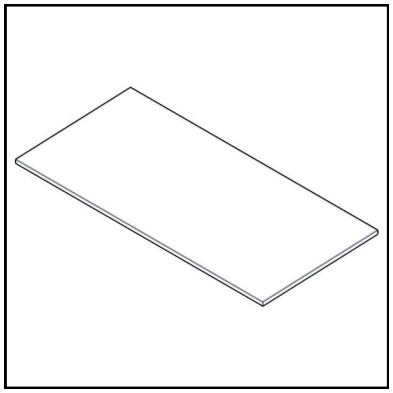
GG Lag Screw Plug
Part Code: 20835

Required Parts Not Included In Kit:

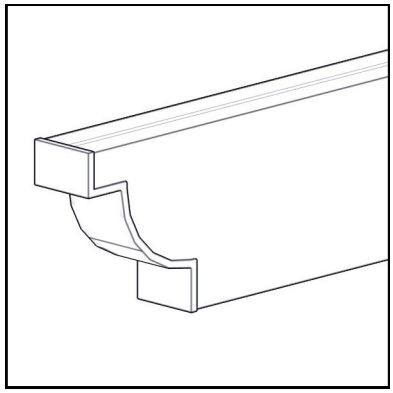
If attaching shade structure to masonry surface (concrete, brick, or stone veneer), you may be required to purchase suitable anchors separately as the lag screws provided may not be sufficient. Check local building codes.

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

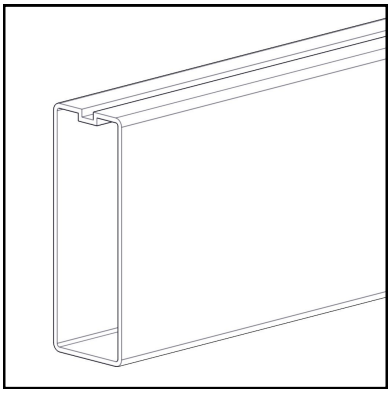
OPTIONAL Parts



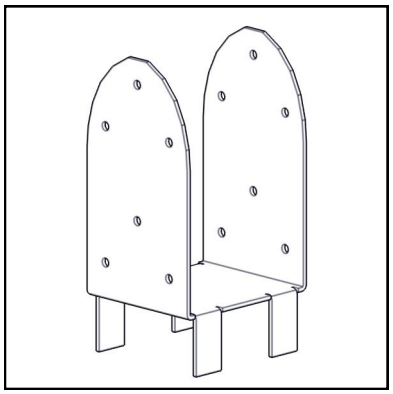
J Mounting Channel Splice
Part Code: 60616



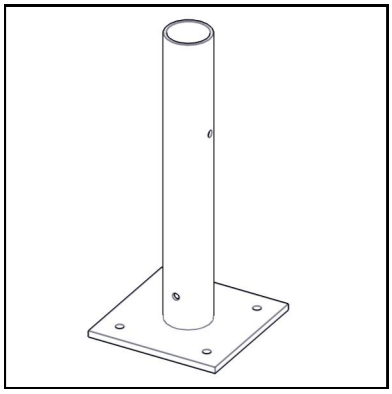
K Header - 3” x 8”
Part Code: 60100
(shown with optional
Deluxe style end cap)



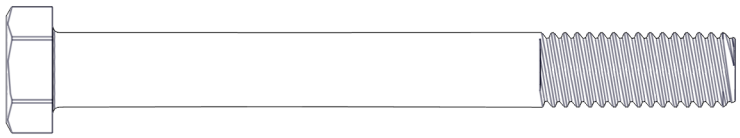
L Header Splice - 3” x 8”
Part Code: 11542



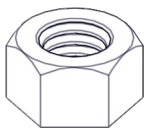
M Header Mounting Bracket
Part Code: 50171



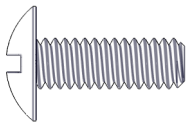
N Heavy-Duty Post Mounting
Bracket
Part Code: 50103



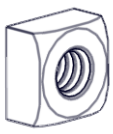
KK 3/8” x 3-1/2” Bolt
Part Code: 20415



LL 3/8” Hex Nut
Part Code: 20562



MM 1/4” x 3/4” Bolt
Part Code: 20751



NN 1/4” Square Nut
Part Code: 20503

STEP 1

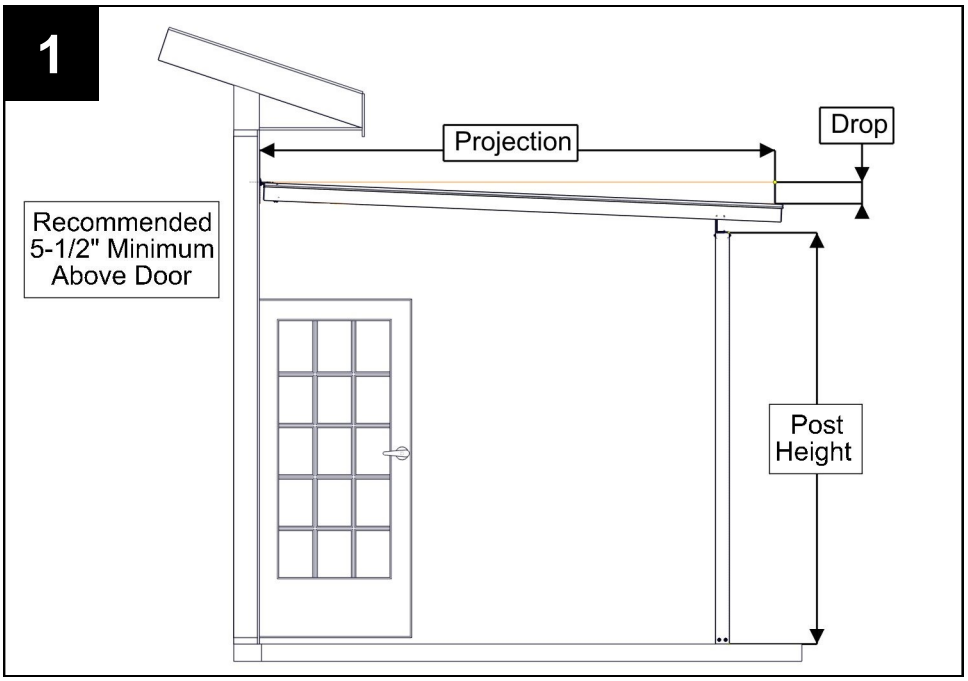
Mark a level line on the surface where the shade structure is to be mounted. Recommended 5-1/2” minimum above an out-swinging door or window.

It is recommended that the front height of the shade structure be lower than the mounting height 1/2” per foot of projection. It is NOT recommended to install the shade structure completely flat. DO NOT direct drainage toward the back of the shade structure.

To properly determine the mounting height, add post **(C)** length, plus header height, plus the required drop.

EXAMPLES:

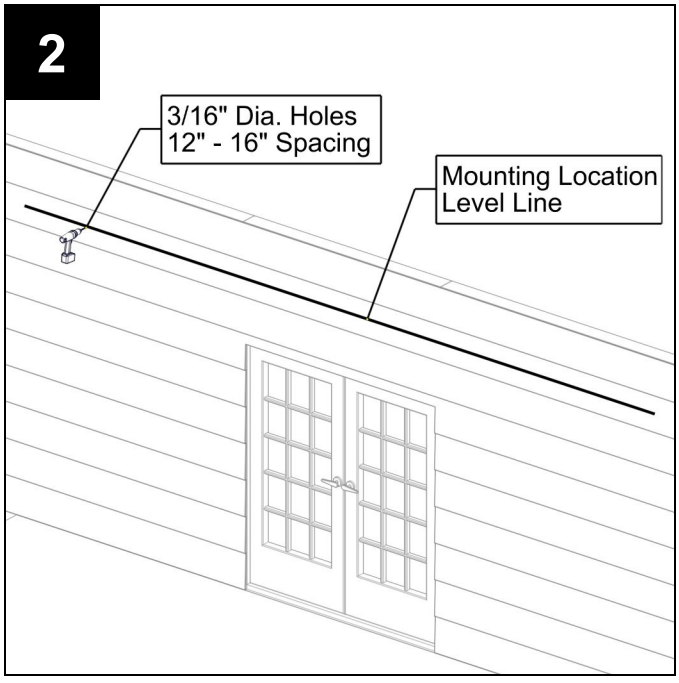
12’-0” Projection = 6” Drop
10’-0” Projection = 5” Drop
8’-0” Projection = 4” Drop



STEP 2

Using a 3/16” bit, drill holes every 12” - 16” through the mounting surface, depending on wall stud spacing.

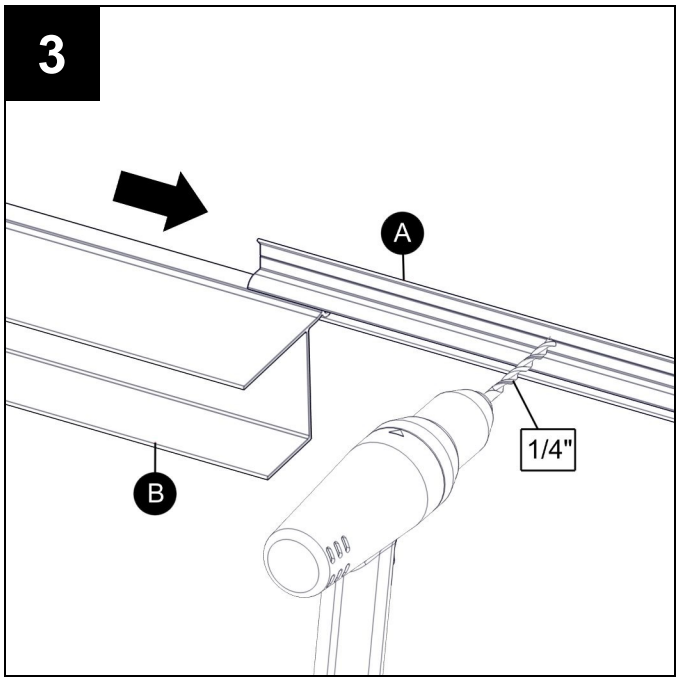
NOTE: Shade structure must be attached to a solid structural support. DO NOT attach to sheathing, siding, flashing, or any other non-structural surface.



STEP 3

Using a 1/4” bit, drill holes through awning rail **(A)** to match hole spacing on the mounting surface.

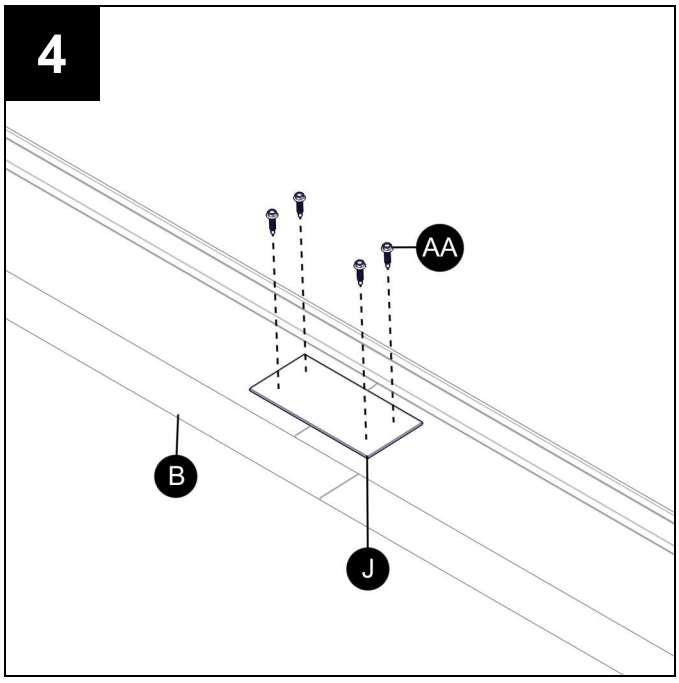
Slide the hinge of mounting channel **(B)** into the slot of awning rail **(A)**.



STEP 4 - MOUNTING CHANNEL SPLICE

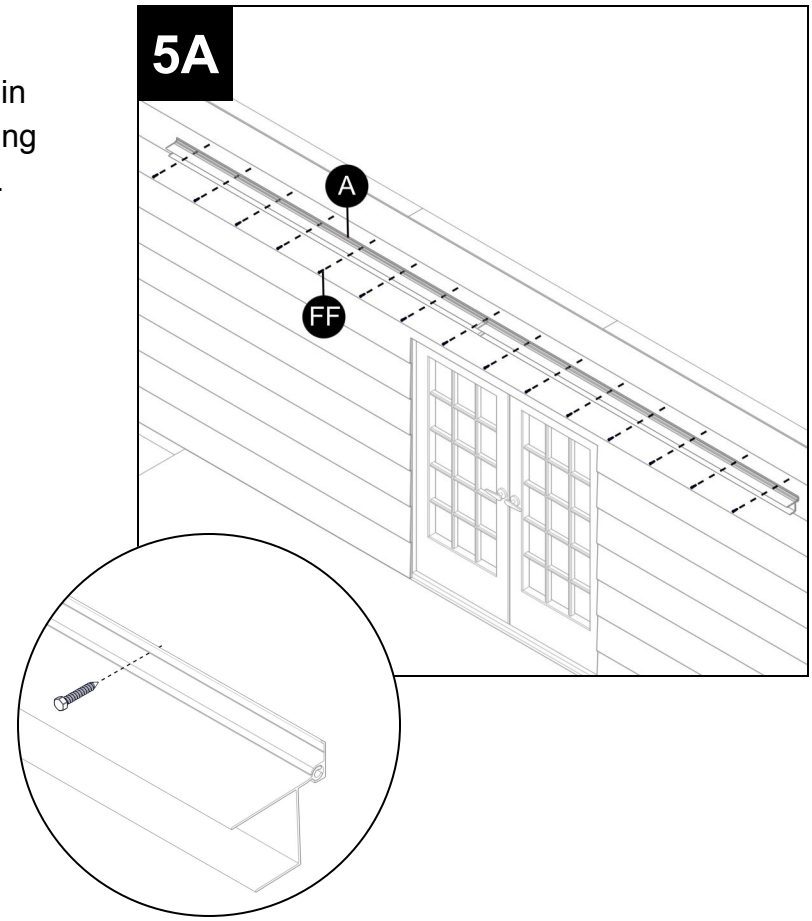
*Complete this step only if mounting channel **(B)** is in two or more pieces.*

Apply caulk to mounting channel splice **(J)**. Attach two pieces of mounting channel **(B)** using (4) #8 x 3/4” screws **(AA)** as shown.



STEP 5A - MOUNTING TO WOOD FRAME

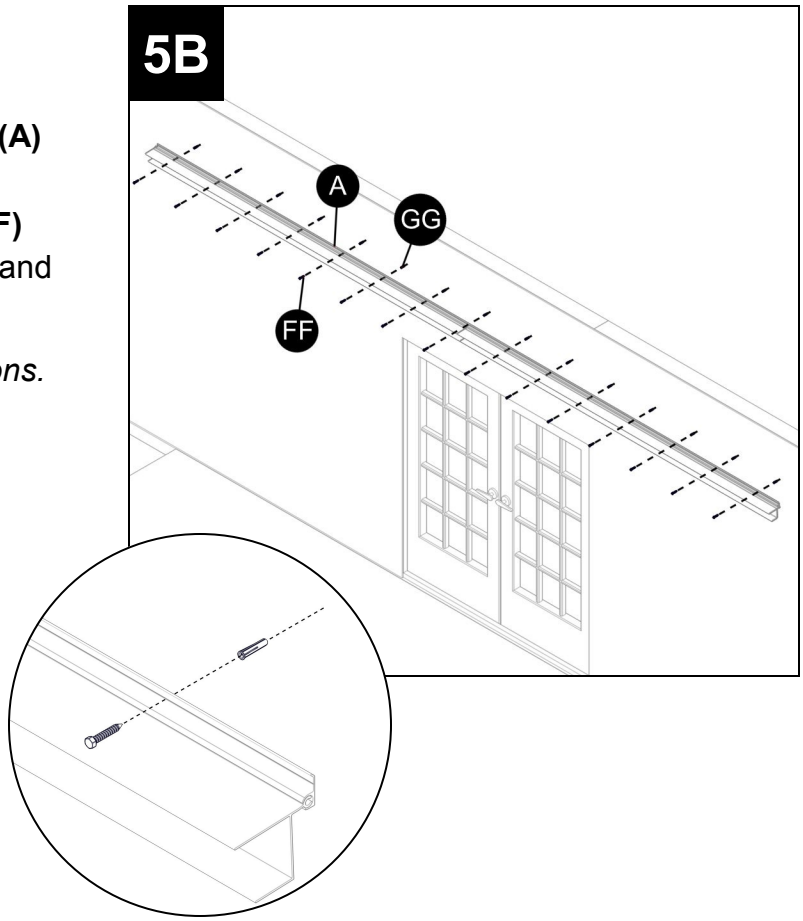
Align the holes in awning rail **(A)** with the holes in the mounting surface. Attach awning rail **(A)** using 1/4” x 1-1/2” lag screws **(FF)** through each hole.



STEP 5B - MOUNTING TO MASONRY

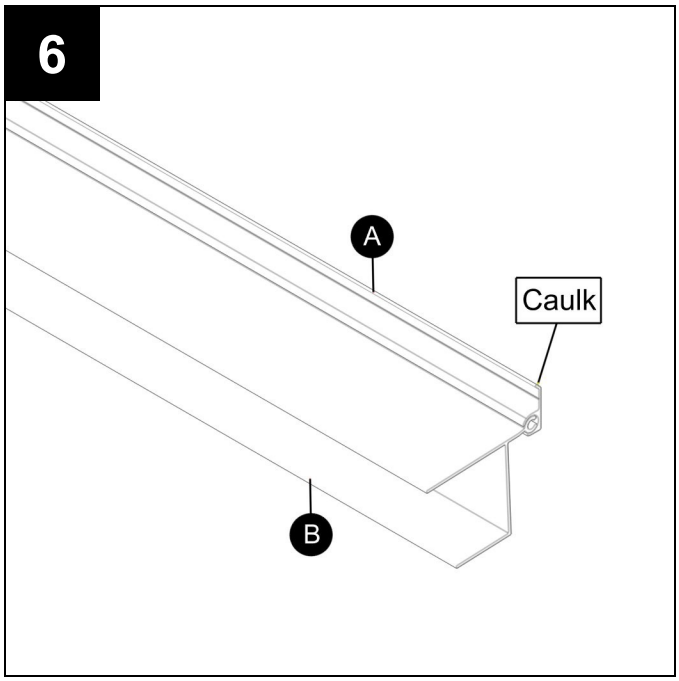
Insert lag screw plug **(GG)** into each hole in the mounting surface. Align the holes in awning rail **(A)** with the holes in the mounting surface. Attach awning rail **(A)** using 1/4” x 1-1/2” lag screws **(FF)** into each lag screw plug **(GG)**. The plug will expand inside the wall when the screw is installed.

NOTE: This may not be suitable for all installations. Check local building codes. If using masonry anchors purchased separately, follow the manufacturer’s guidelines for proper installation.



STEP 6

Apply a continuous bead of caulk along the back side of awning rail **(A)**.



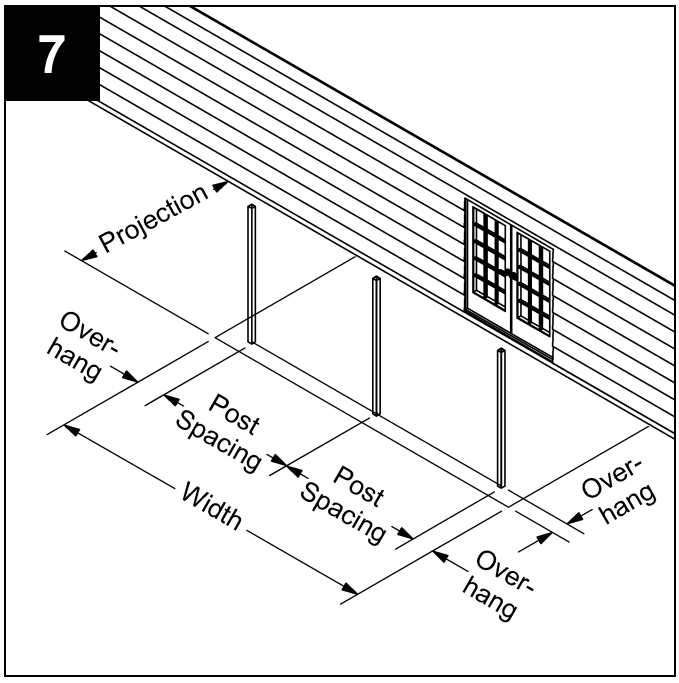
STEP 7

Using chalk lines, mark the outline of the shade structure on the foundation. Mark the location of each post by subtracting the desired overhang from the overall dimensions. If layout drawings were received with your order, use those as the guide.

On standard load units, the posts should be spaced no more than 10'-0" apart with no more than 2'-6" overhang from either side of the cover.

If the header is in two or more pieces, be sure a post is positioned under each splice.

*Depending on available surface and local building codes, there are several options for mounting the posts **(C)**.*



Standard Bracket Installation: Go to page 12

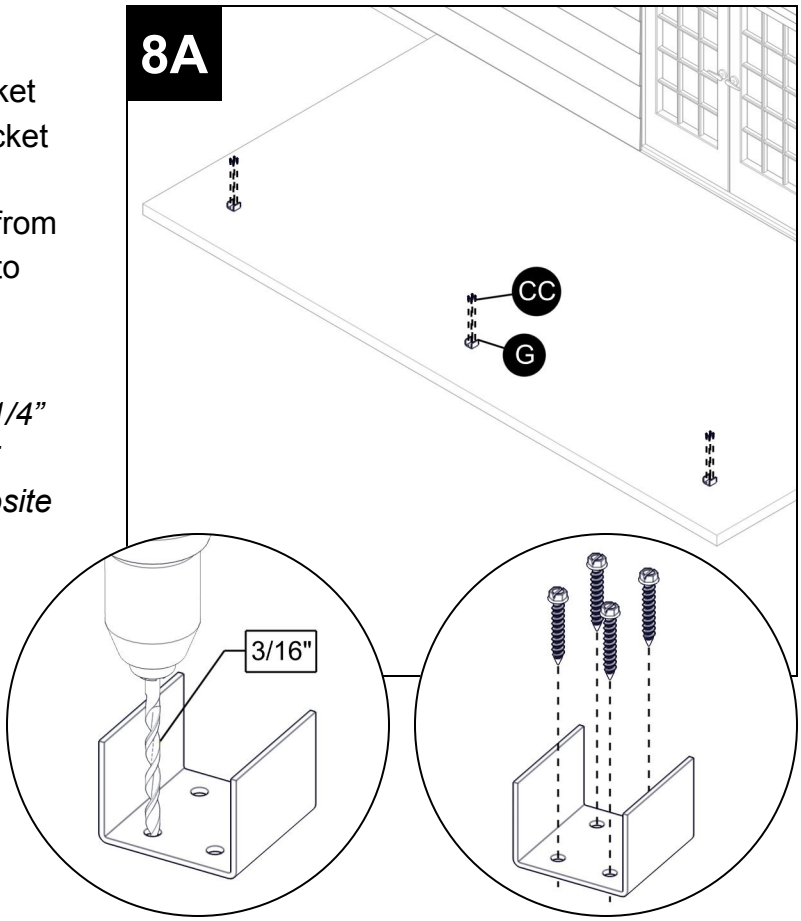
OPTIONAL Heavy-Duty Bracket Installation: Go to page 13

Buried Post Installation: Go to page 14

STEP 8A - STANDARD BRACKETS

If you received the standard post mounting bracket **(G)**, mark the location of the (4) holes in the bracket at a post location. Using a 3/16” bit, drill holes to match the pattern on the bracket. Remove dust from the holes and attach post mounting bracket **(G)** to the foundation using (4) 1/4” x 1-3/4” Tapcon anchors **(CC)**.

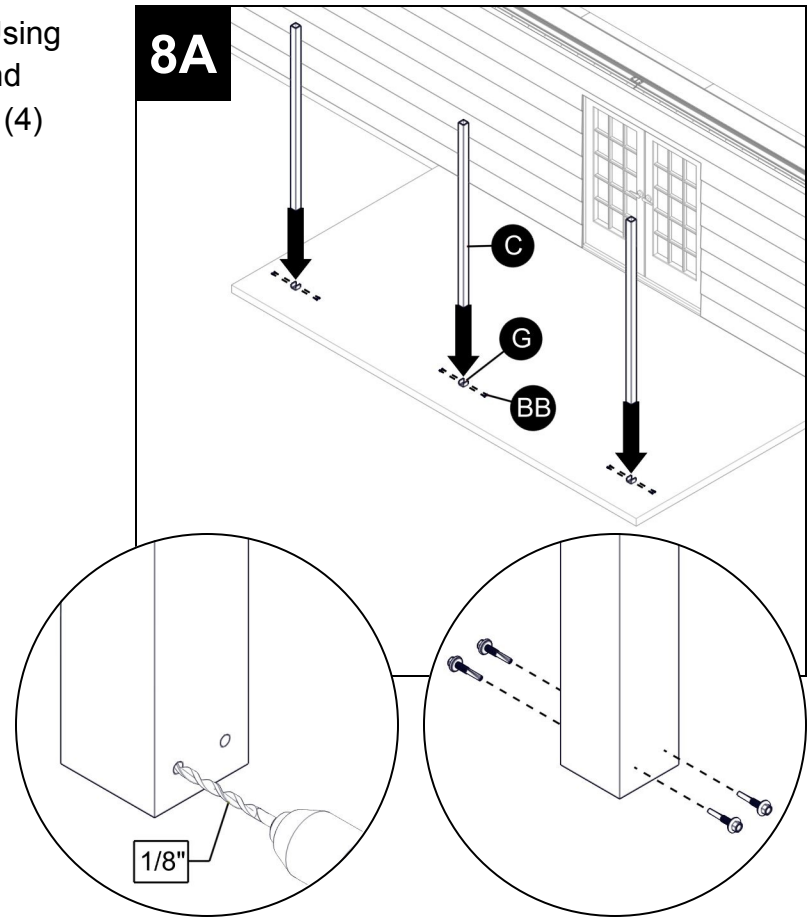
*NOTE: If attaching to wood or composite deck, 1/4” x 1-1/2” lag screws **(FF)** must be used. DO NOT use Tapcon anchors to attach to wood or composite surface.*



Fit a post **(C)** over post mounting bracket **(G)**. Using a 1/8” bit, drill (4) pilot holes through the post and bracket, (2) on each side. Attach the post using (4) #12 x 1-1/4” screws **(BB)**.

Repeat for all remaining posts **(C)**.

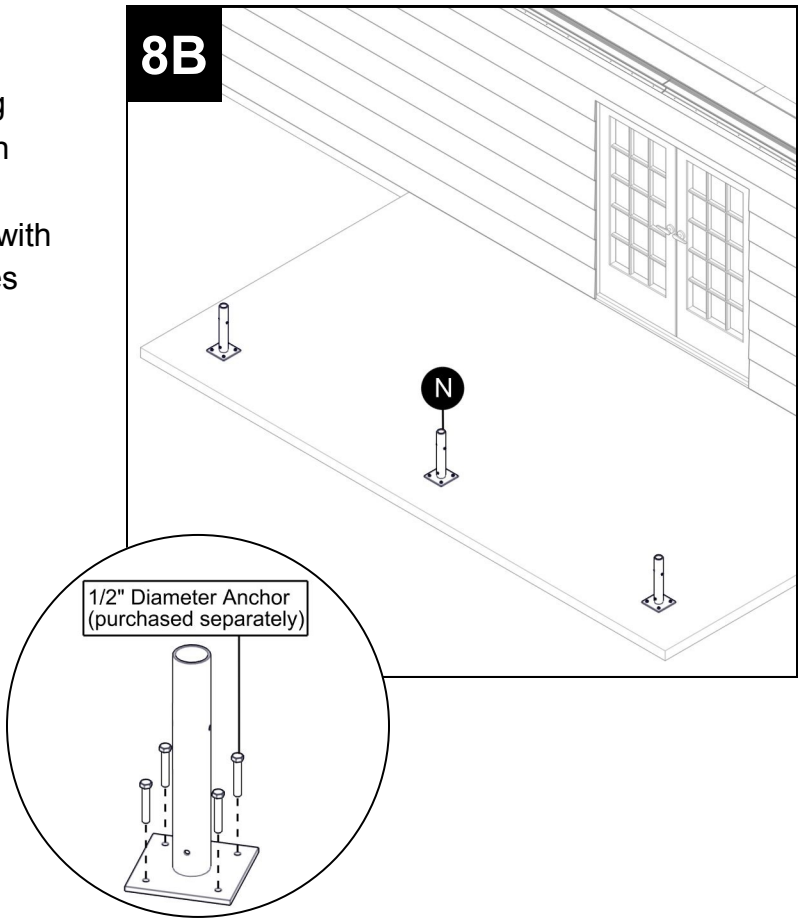
Continue on page 15



OPTIONAL

STEP 8B - HEAVY-DUTY BRACKETS

If you received the optional heavy-duty mounting brackets **(N)**, mark the location of the (4) holes in the bracket at a post location. Anchor bolts 1/2" diameter must be purchased separately for use with this bracket. Follow the manufacturer's guidelines for proper installation.

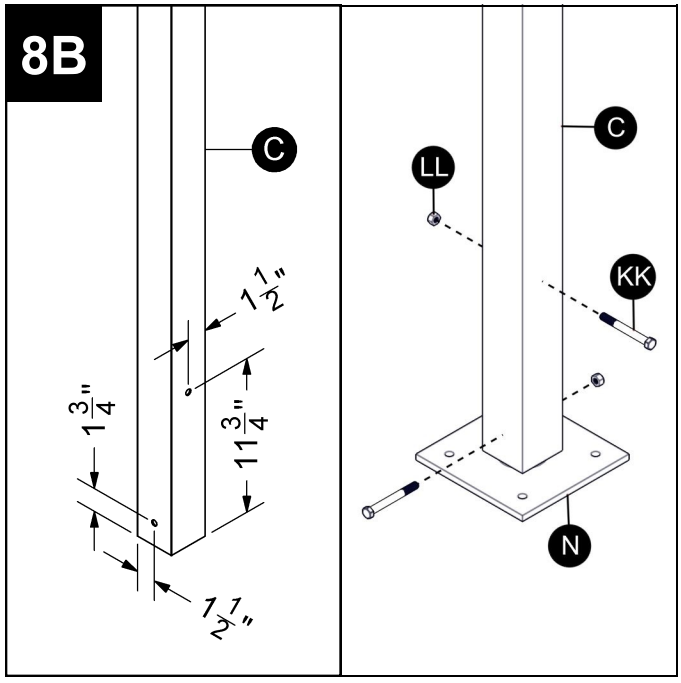


Using a 7/16" bit, drill (4) holes through post **(C)** according to the dimensions shown.

Attach post **(C)** to heavy-duty mounting bracket **(N)** using (2) 3/8" x 3-1/2" bolts **(KK)** and 3/8" hex nuts **(LL)**.

Repeat for all remaining posts **(C)**.

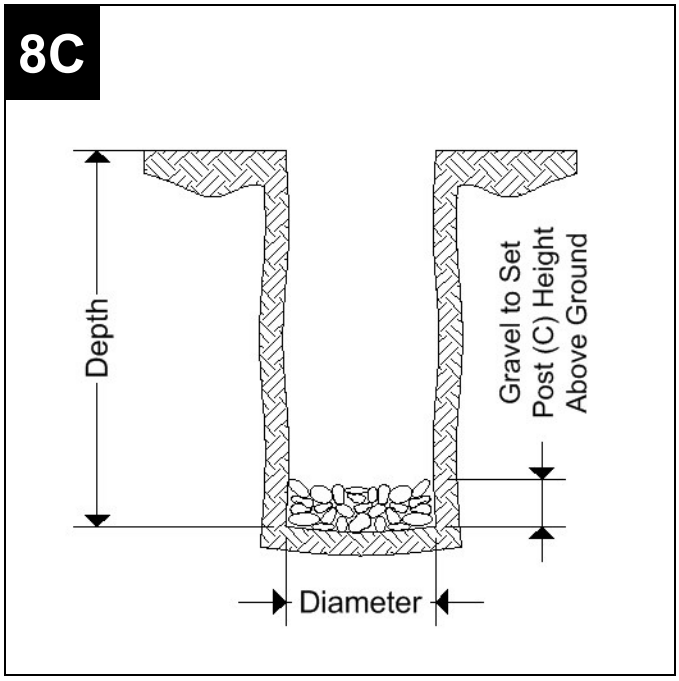
Continue on page 15



OPTIONAL

Note: *Review Site Preparation on page 4*

STEP 8C - BURIED POSTS

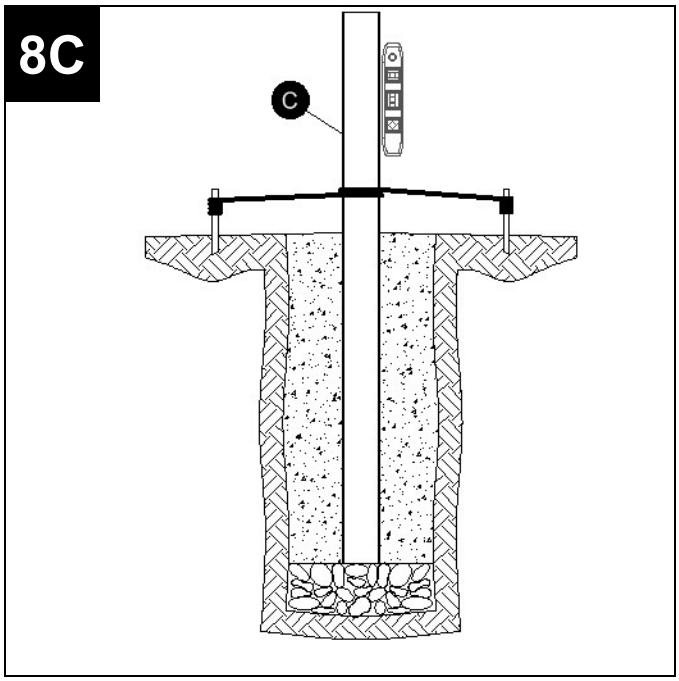


If you plan to bury posts **(C)**, consult your local building authorities for required footing diameter and depth. Dig footings to the required size at each post location.

CAUTION: Before any digging, check with local utilities to determine the location of buried cables, pipes, etc.

NOTE: A footing inspection is often required before pouring concrete. Consult your local building authorities.

Measure the length of post **(C)** and determine the desired height above grade. Remove loose dirt from the footing hole and compact the bottom. Pour enough gravel or rubble (such as driveway stone) into the footing to achieve the desired post height. Compact the gravel to make a solid surface to set the post.



Set post **(C)** in the footing hole. Use a carpenter's level to plumb the post, then use stakes and rope (or ratchet straps, optional) to hold the post plumb and in position. Fill the footing hole with concrete. Slope the top of the footing in all directions to prevent water from ponding around the post. Also slope the ground around the footing to provide drainage.

IMPORTANT: Allow all footings to completely harden before continuing installation.

Continue on page 15

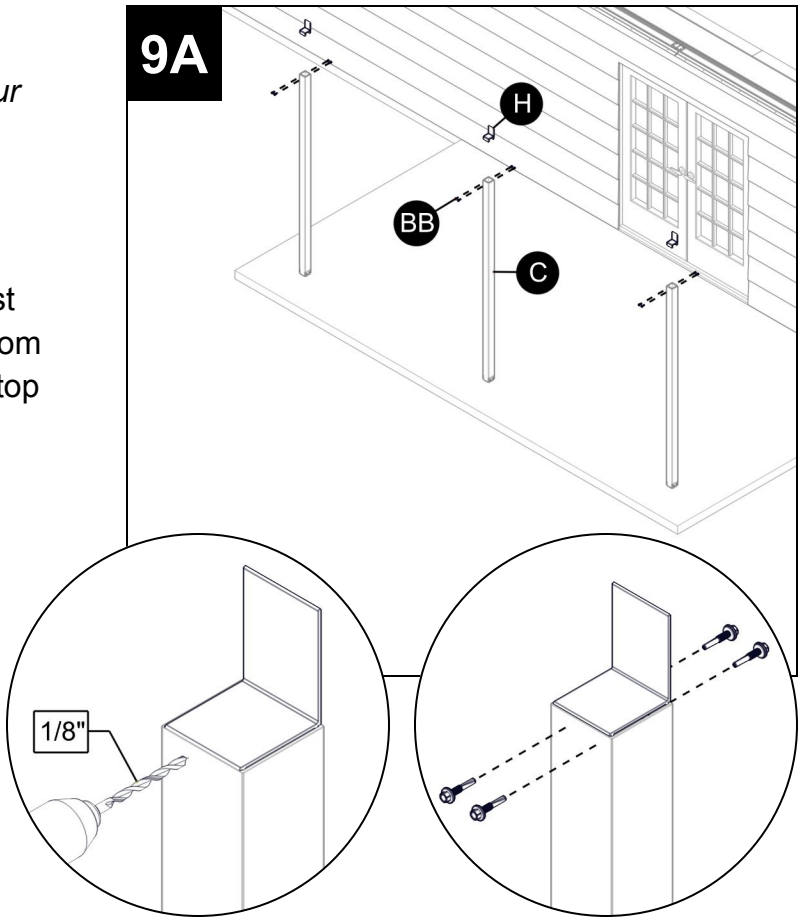
STEP 9

Depending on the header style received with your order, there are two header mounting bracket options.

3” BOX BEAM:

Fit header mounting bracket **(H)** in the top of post **(C)** so that the back of the bracket faces away from the front of the cover. Have assistance hold the top of post **(C)** steady. Using a 1/8” bit, drill (4) pilot holes through the post and bracket, (2) on each side. Attach using (4) #12 x 1-1/4” screws **(BB)**. Repeat for all posts **(C)**.

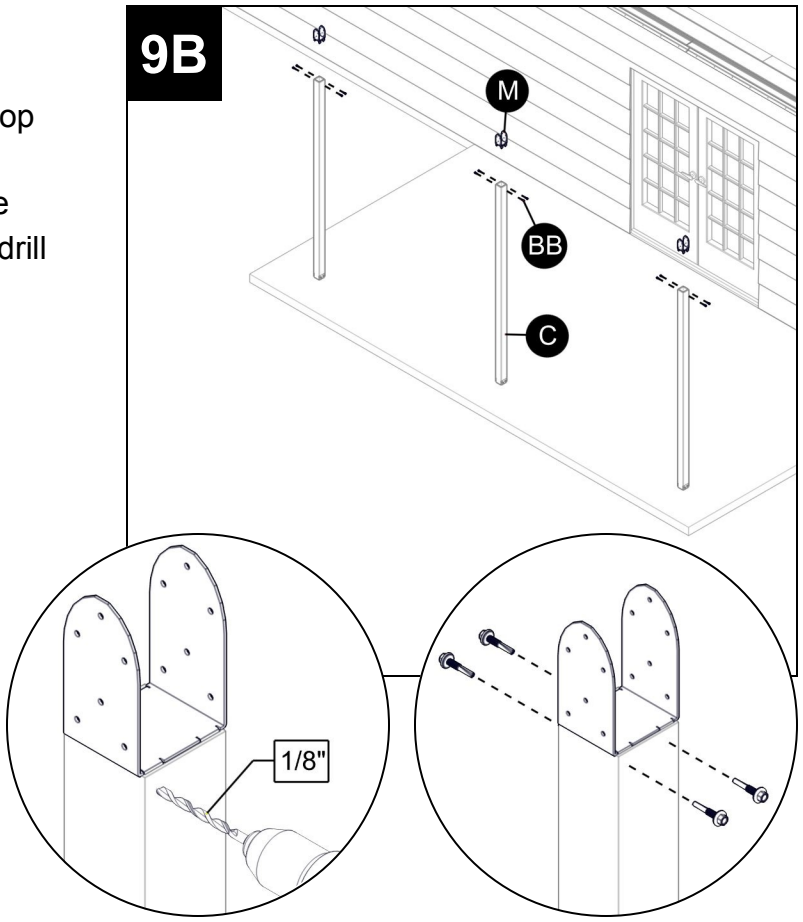
3” Box Beam Header Installation:
Go to page 16



3” x 8” HEADER:

Fit optional header mounting bracket **(M)** in the top of post **(C)**. The front/back of the bracket should face the front/back of the cover. Have assistance hold the top of post **(C)** steady. Using a 1/8” bit, drill (4) pilot holes through the post and tabs of the bracket, (2) on each side. Attach using (4) #12 x 1-1/4” screws **(BB)**. Repeat for all posts **(C)**.

3” x 8” Header Installation:
Go to page 17



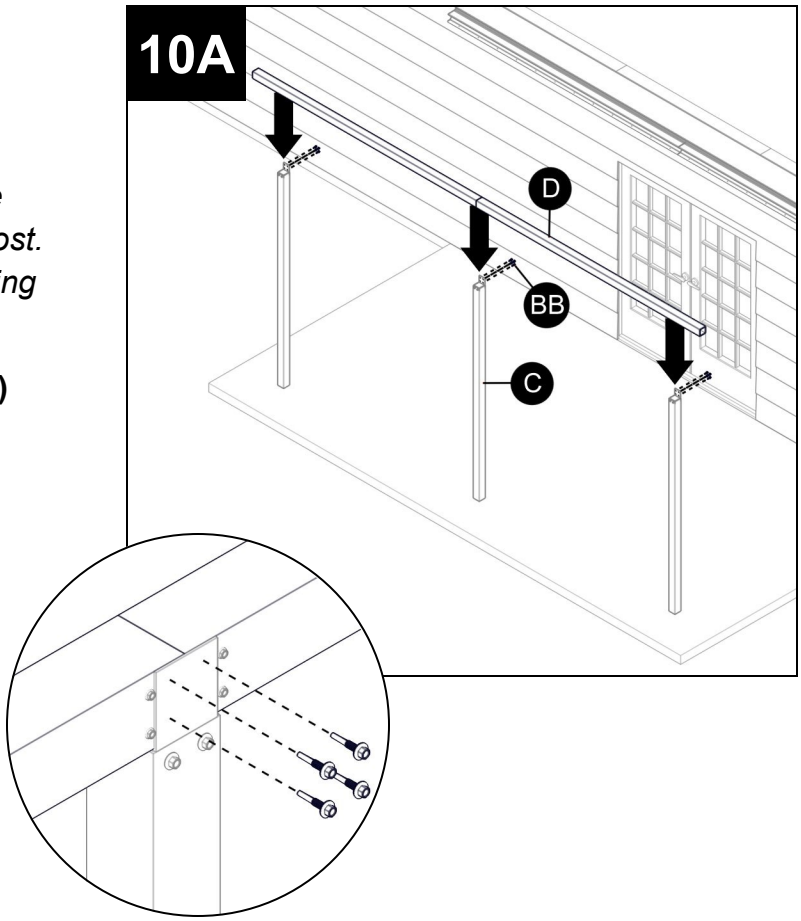
STEP 10A - 3” BOX BEAM

Position header **(D)** over posts **(C)** with an equal amount of overhang on both ends.

*NOTE: If header **(D)** is in two or more pieces, be sure one end of the header is centered over a post. Complete splice installation below before attaching to posts.*

Attach header **(D)** to header mounting bracket **(I)** using (4) #12 x 1-1/4” screws **(BB)**.

Continue on page 18

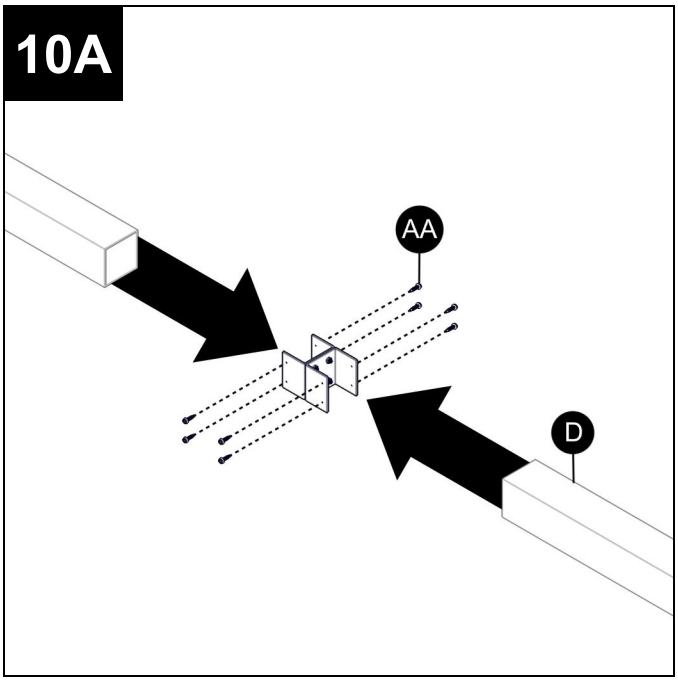


OPTIONAL - 3” BOX BEAM SPLICE

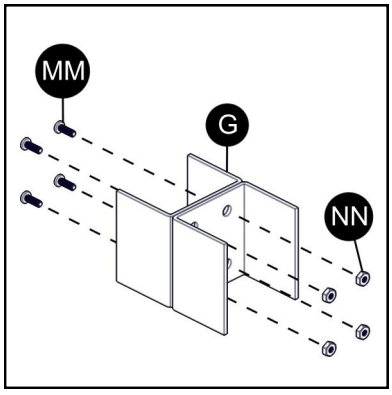
If header **(D)** is in two or more pieces, insert an equal amount of the provided splice into the ends of the headers.

*The header splice (if not sent pre-assembled) is (2) post mounting brackets **(G)** attached using (4) 1/4” x 3/4” bolts **(MM)** and 1/4” square nuts **(NN)**.*

Attach the header splice to header **(D)** using (4) #8 x 3/4” screws **(AA)**.



SPLICE ASSEMBLY



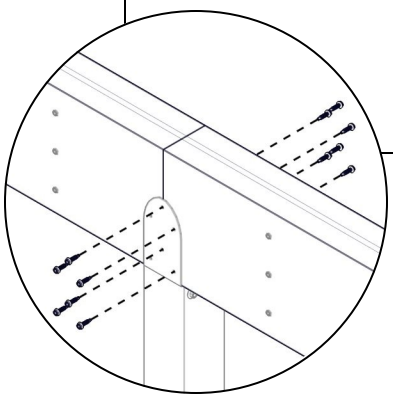
STEP 10B - 3” x 8” HEADER

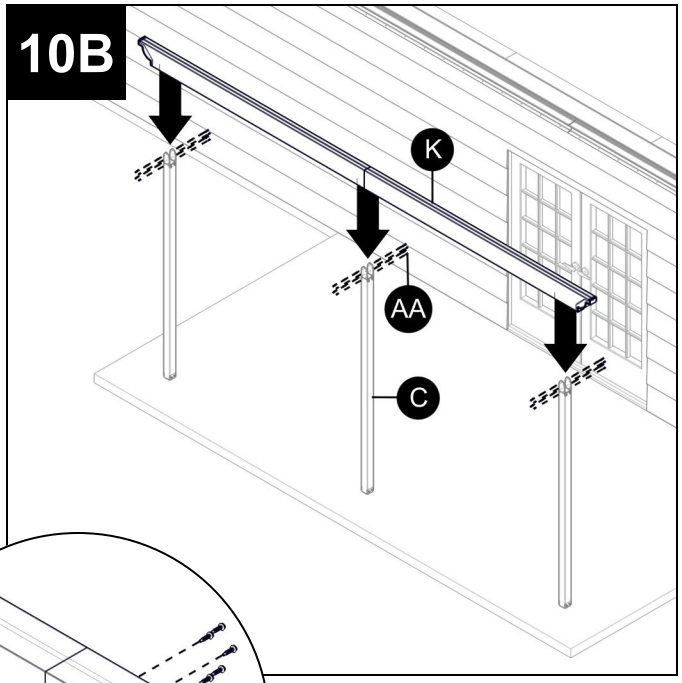
Position header **(K)** over posts **(C)** with an equal amount of overhang on both ends.

*NOTE: If header **(K)** is in two or more pieces, be sure one end of the header is centered over a post.*

Attach header **(K)** to header mounting bracket **(M)** using (12) #8 x 3/4” screws **(AA)**.

Continue on page 18

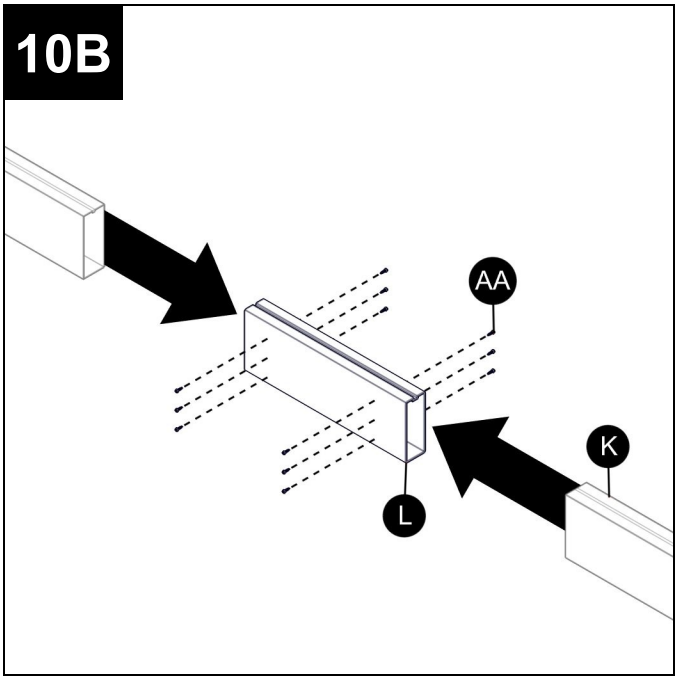




OPTIONAL - 3” x 8” HEADER SPLICE

If header **(K)** is in two or more pieces, insert an equal amount of header splice **(L)** into the ends of the headers.

Attach header splice **(L)** to header **(K)** using (12) #8 x 3/4” Tek screws **(AA)**.

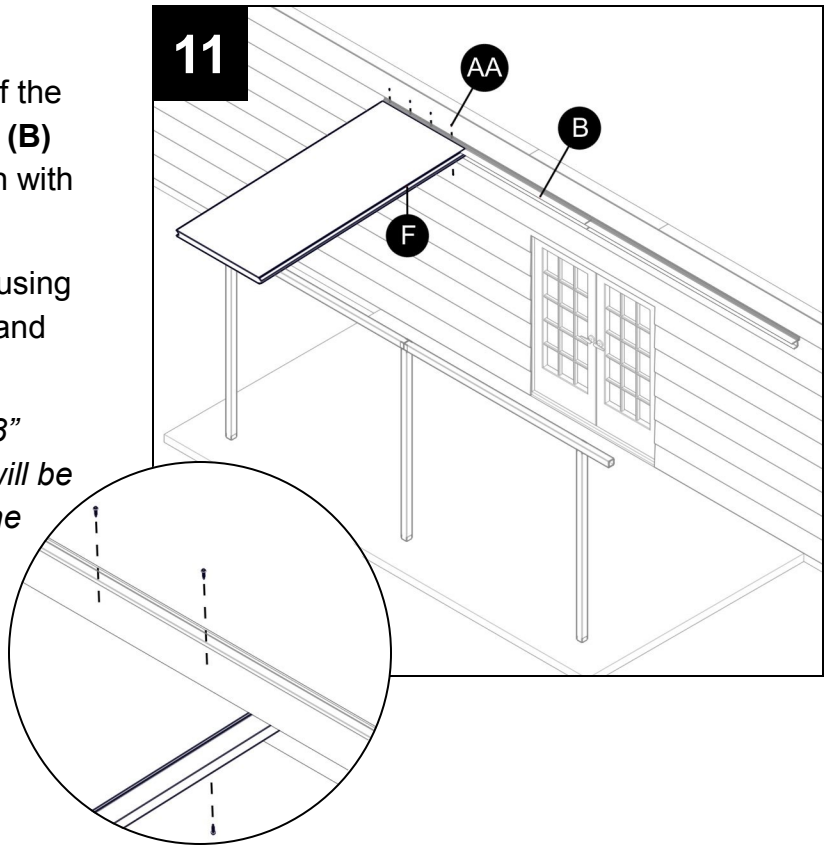


STEP 11

Begin roof panel **(F)** installation at either end of the cover. Fit the first panel into mounting channel **(B)** so that the female end of the roof panel is flush with the end of the mounting channel.

Attach roof panel **(F)** to mounting channel **(B)** using #8 x 3/4” screws **(AA)** at 12” on center, at top and bottom of the mounting channel.

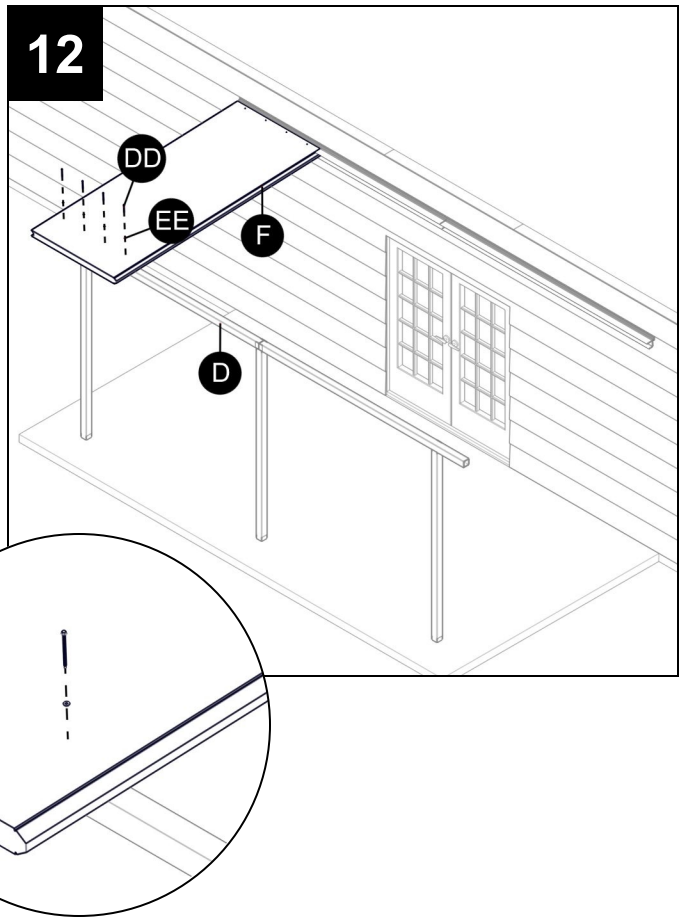
NOTE: Roof panels are available in 24” and 48” widths. For custom width covers, roof panels will be sent pre-cut. These panels must be used on the ends of the cover.

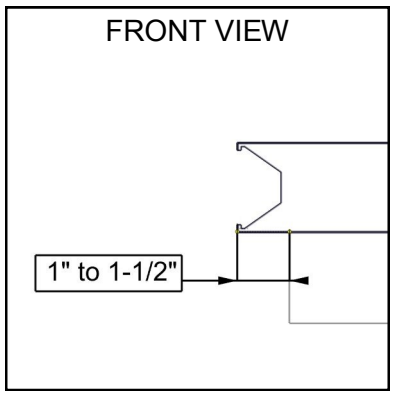


STEP 12

Attach roof panel **(G)** to header **(D)** or **(K)** using #14 x 4” Tek screws **(DD)** and 1/4” washers **(EE)** at 12” on center.

The first and last panels should overhang the ends of the header by approximately 1” to 1-1/2”.





STEP 13

Run a continuous bead of caulk or adhesive down the top channel of the male side of the first roof panel **(F)**.

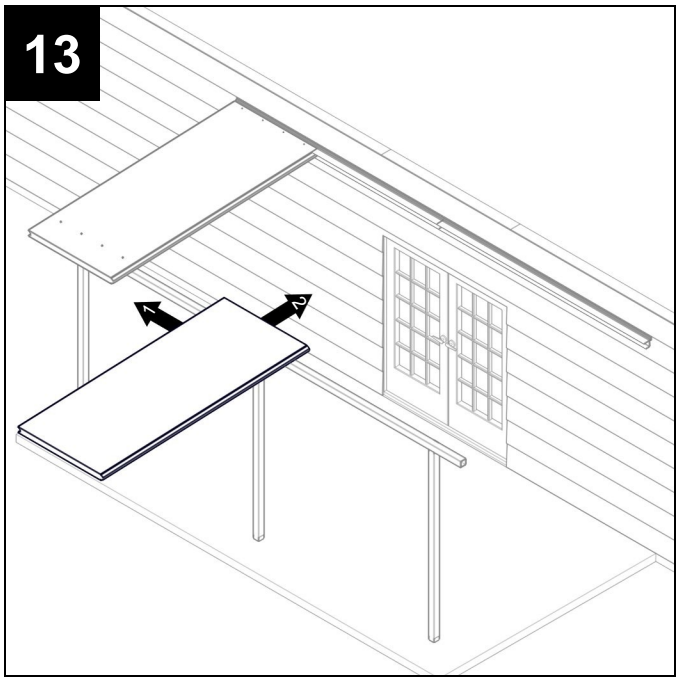
Position one end of the next roof panel on header **(D)** or **(K)**. Line up the male and female ends of the roof panels and press together until the ends are locked.

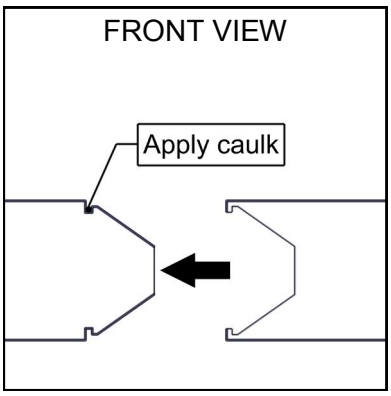
Slide roof panel **(F)** into mounting channel **(B)** until the front end is flush with the previous panel. Repeat steps 11-12 on page 18 to attach roof panel **(F)** to mounting channel **(B)** and the header.

Wipe down the top seam of roof panel **(F)** to smooth caulk, making sure there are no gaps in the sealant.

Repeat for all remaining roof panels **(F)**.

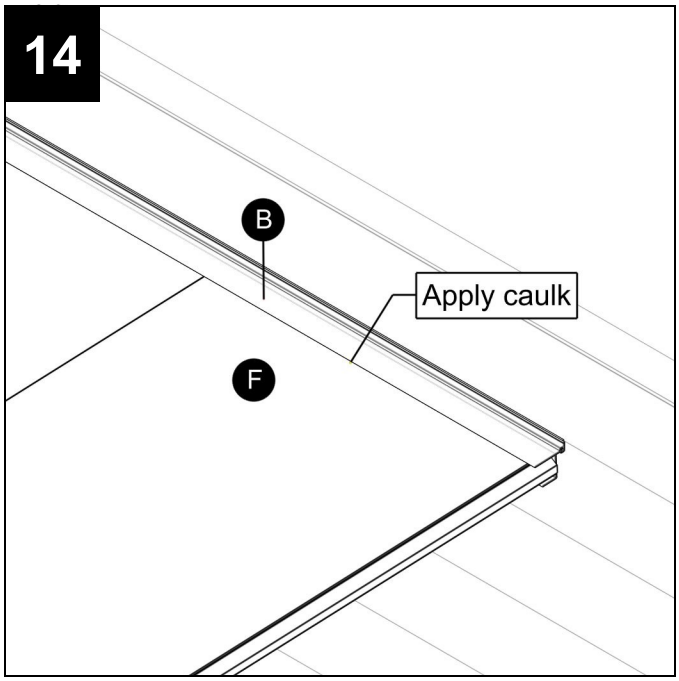
NOTE: Roof panels should be snapped together fairly soon after caulking is applied.





STEP 14

After all roof panels **(F)** are installed, apply a continuous bead of caulk where the top edge of mounting channel **(B)** meets the roof panels.

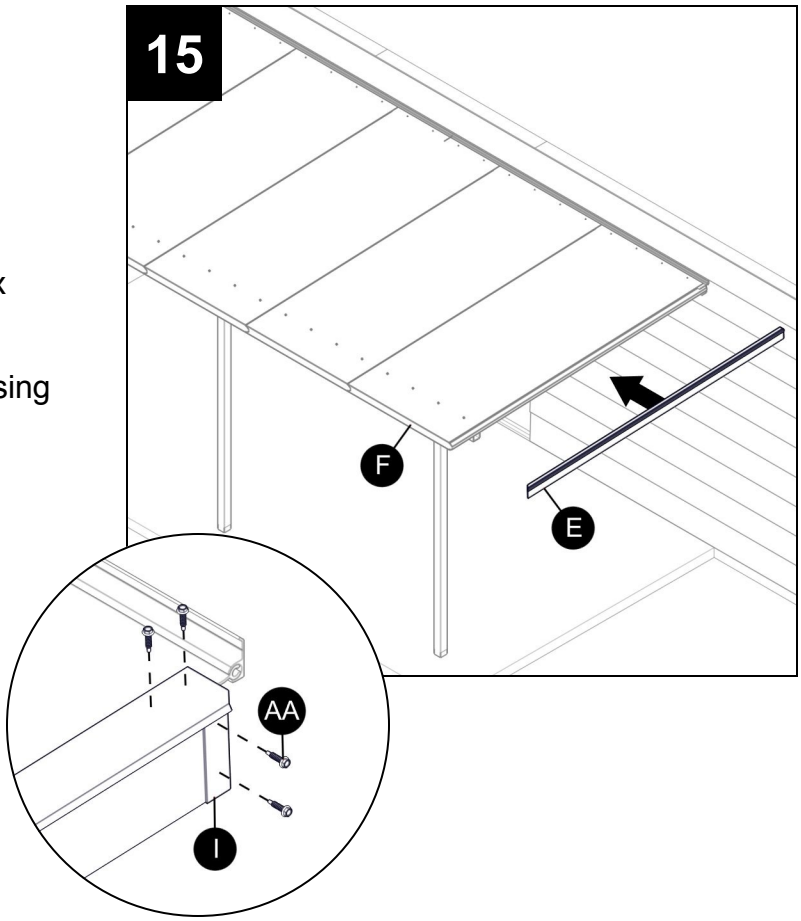


STEP 15

Position fascia trim **(E)** over either end of roof panels **(F)**. The square end should be approximately flush with the back of mounting channel **(B)**.

Attach fascia trim **(E)** to roof panel **(F)** using #8 x 3/4” screws **(AA)** at 12” on center.

Attach fascia trim **(E)** to mounting channel **(B)** using a corner cap **(I)** and (4) #8 x 3/4” screws **(AA)**.



STEP 16

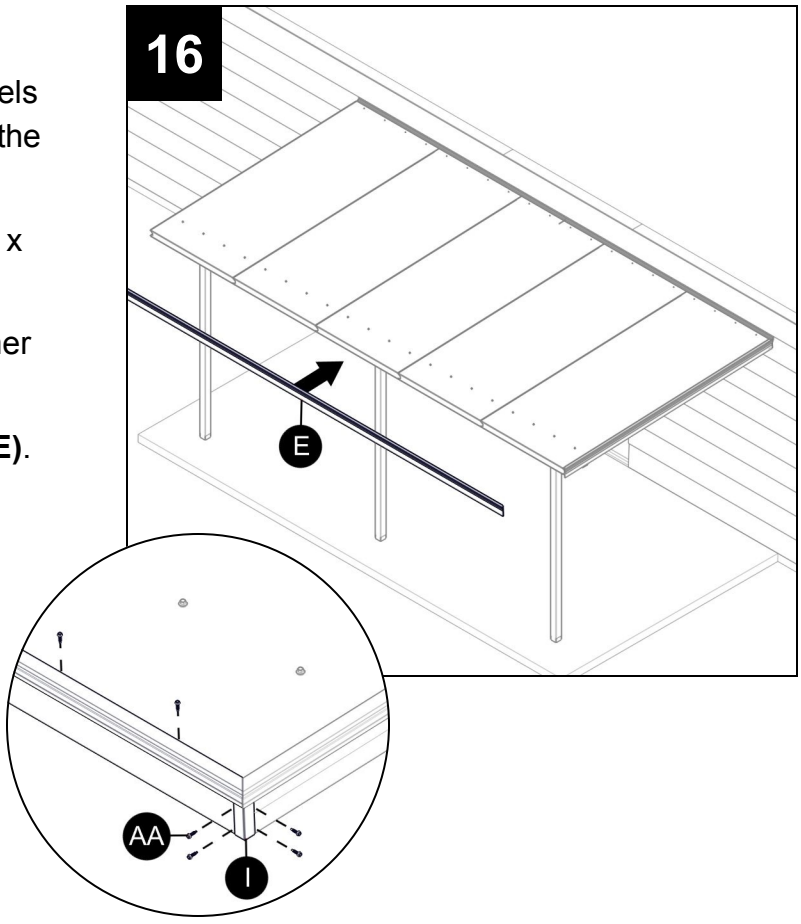
Position fascia trim **(E)** over the front of roof panels **(F)**. Align the mitered end with the fascia trim at the end of the panels.

Attach fascia trim **(E)** to roof panels **(F)** using #8 x 3/4” screws **(AA)** at 12” on center.

Attach fascia trims **(E)** at the corner using a corner cap **(I)** and (4) #8 x 3/4” screws **(AA)**.

Repeat Step 15 to install remaining fascia trim **(E)**.

Apply a continuous bead of caulk where the top edge of fascia trims **(E)** meet roof panels **(F)**.

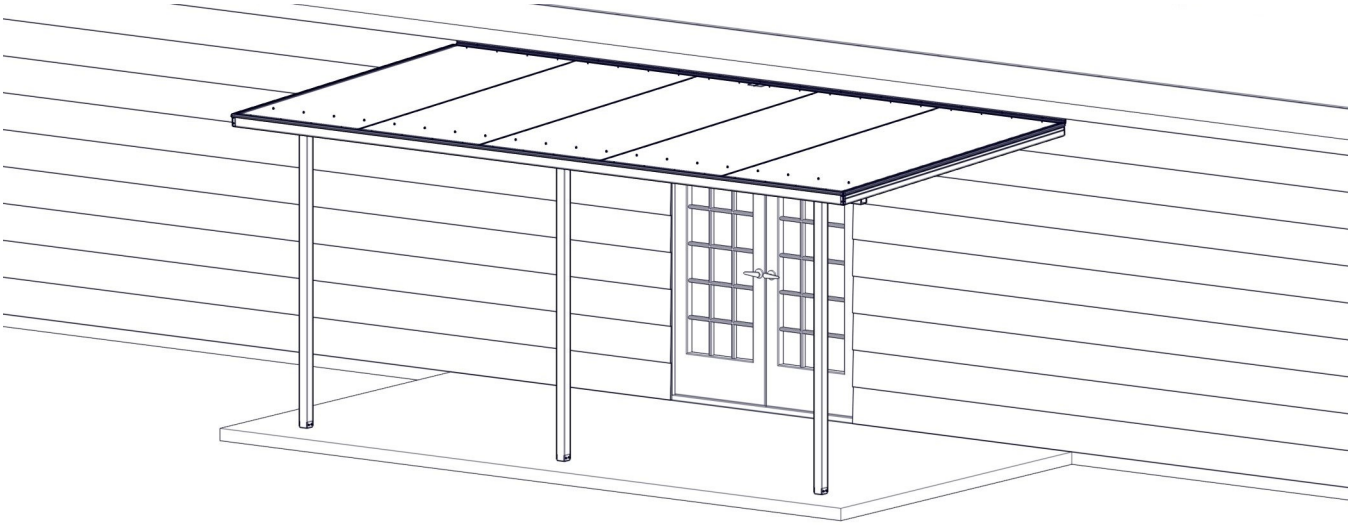


OPTIONAL—GUTTER INSTALLATION

Standard house gutter (purchased separately) can be attached to fascia trim **(E)** if desired. Fit the gutter under the top lip of the fascia trim and screw in place.

Assembly Completed

Remove any metal shavings from the shade structure by sweeping or brushing.
Be sure to follow the Care and Maintenance instructions attached.



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.