Installation Guidelines
Pan System Patio Cover
W Pan & Flat Pan Systems

Tools You’ll Need
4 ft. Carpenter’s level  Chalk line (to mark “U” channel locations)  Cordless drill/nut driver  Caulking gun
Chop saw with a metal cutting blade on it (required to make accurate and precision cuts)  Hacksaw
Masonry bits for drilling into concrete; masonry fasteners (if necessary)  Safety eye-wear  Ladder(s)
Metal file (to smooth cut edges)  Hammer, Screwdrivers, Drill, tape measure  Box knife  Gloves

1.844.404.0484
www.homeporchandpatiokits.com
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The manufacturer cannot respond to customer inquiries or phone messages.
We are well equipped to step in and solve any issue you may have with your purchase.
Instructions, fascia gutters for all four sides, 'W' pans or 'Flat' pans, corners, beam (where required), screws, beam to fascia hardware, sealant, scuppers, 3" x 3" posts, top brackets and fastener bars. Your unit must be anchored properly to be in accordance with all live load ratings. When a beam is used it includes angle brackets, hardware, and screws.

Refer to your quotation for beam placement and post spacing. Each of these measurements are specific to your local load requirements.
A. Cutting the Rear Fascia Gutter
Select the spot where the rear fascia gutter will mount to the wall. Snap a level horizontal chalk line on the wall for positioning purposes. You will need to determine the exact length of the finished size of your rear fascia gutter.

The finished width of your patio cover includes the corner assemblies. Therefore the corner + length of fascia gutter + corner = finished width. Each corner piece has ‘stop tabs.’ This is where the fascia gutter itself stops within the corner assembly (see below). Measure the distance from the stop tab to the corner. It should be 3 1/2”. This would be how much each corner contributes to the total width of your unit. Therefore if you wanted a finished width of 12’ (144”) breakdown into 3 1/2” + 137” + 3 1/2”. This is each corner piece pushed onto each end of the 137” piece of fascia gutter right up to the stop tabs.

B. Corner Assembly for Rear Fascia Gutter
Slide corners onto both ends of the rear fascia gutter by inserting fascia into corner until it stop against tab. Measure rear fascia length with corners on to verify that it is the correct length. Slight corrections can be made by moving fascia away from the tab or by bending tab in slightly and sliding fascia past the tab. Once proper size is established, mark corner position and remove fascia from corners. Apply (2) two liberal beads of ‘Gutterseal’ one inch (1”) apart and one inch (1”) from end corner to all three inside corner surfaces and reinsert fascia to correct position. Use #10 3/8” S.M. screws to fasten corners to fascia (see above).

If you have more that one piece of rear fascia gutter that makes up your width, you have been provided with splices and hardware with which to connect the pieces together. See the step labeled “Front & Rear Fascia Gutter Splices.”

*The above process of including the corners in the total measurement of any side needs to be repeated for the front (assuming square it should be the same as the rear assembly) as well as for the two sides (projection). Please be sure of your math prior to cutting.

TIP : On both rear and front fascia gutter assemblies (including corners), with a pencil, starting on the left, place a mark for every pan width along the length of the assembly.
C. **Install Rear Fascia Gutter Assembly**
Prior to securing your rear fascia assembly we suggest applying two beads of caulking on the back surface where it will meet the building or fascia board.

Having already determined the back-wall height of the rear fascia gutter (chalk line in A.), and assembled the corners (see B.), with the help of one or more assistants (depending on the size of your awning) hoist the rear fascia gutter into place and lag screw it into the rafter ends (if mounting onto a fascia) or into a preinstalled ledger board on the house wall (see illustrations 1-3).

We suggest two lag screws (one above and one below) with large washers at the same spot every 16” - 24”. If you have room it is advisable to run a bead of caulk on the top of the rear fascia assembly once installed so as to ensure a water-tight seal.
*(ledger board, screws and washers purchased separately)*

Always level and square before fastening.

D. **Post placements & heights**
You will now need to determine where you would like your posts to be located. *Refer to your quotation for beam / post placement and post spacing. Each of these measurements are specific to your local load requirements.*

You will need to have your front fascia gutter assembly completed for this step. Again, if you have two or more pieces that make up the front fascia gutter assembly, instructions for splicing them together is in the next step. Assemble your front gutter assembly (see A.).

D.1 If your unit does not have a beam & post assembly and you are simply putting your posts under the front fascia gutter assembly then...

Using your quotation, determine the spacing between posts. For example if you have a 12’ wide unit, with three posts and your quotation outlines a maximum spacing of 5’ between posts then you would measure 1’ from the left corner (on center) plus 5’, plus 5’. The center of your 3” x 3” posts would sit at 1’, 6’ & 11’ respectively. Using the top column bracket as a template, drill two holes in the bottom of the gutter to mount the top post brackets to the gutter using the 1/4” - 20 hex D machine screws supplied. Use ‘Gutterseal’ around holes in brackets and attach the brackets to fascia.

**GO TO D.4**
D.2 If your unit is configured to use a beam then...
Please take note of the bracket & beam attachments set out below. Your quotation will also dictate at what point that beam & post assembly is to be placed out along the projection. Use that figure determine where the bottom brackets for your posts will be attached to your deck or patio or where they should be cemented into the ground.

**NOTE:** No matter which beam size you have (3”x3” / 4”x4” / 5”x7” / 3”x6” / 3”x10”), the beam must be cut to fit inside the two projection pieces of fascia gutter - they ones that project away from the house wall. The beam must support the pans, and be directly under them as shown here. The ends of your beam will attach to the back side of the fascia gutter by means of your 4 angle pieces and supplied screws. You will use two angles per beam to fascia connection (one angle on each side of the beam). There will be two on one end, and then two on the opposite end. **The beam size will be measured as the inside distance between the corner pieces of your front fascia gutter assembly.**

D.3 You will need to do the math to determine the finished size of your post and beam assembly. The following example is for a 12’ projection, 3’ W pan supported at the 11’ mark with a 3” x 3” set back beam and 3 posts. Your numbers should be adjusted accordingly.

Using your backwall fascia gutter assembly, take the measurement from the deck / patio to the top of the INSIDE lip (that the W pan sits on). For the purpose of this illustration, call it 8 feet. With a pitch of 1/4” per foot of projection, the total height of the post & beam assembly will be 8’ minus 2 3/4” (11 x 1/4”) = 7’ 9 1/4”. The beam in this illustration is 3” tall which means the 8’ post supplied with the kit would need to be trimmed to a finished height of 7’6 1/4”. (See illustration #4)

**You are NOT assembling anything in steps D.2 & D.3.**
If you do **not** have a beam & post installation, your post height will be the measurement from the deck / patio to the **top of the INSIDE lip** (that the W pan sits on) of the rear fascia gutter assembly. For the purpose of this illustration, call it 8 feet. With a pitch of 1/4” per foot of projection, the total height of the post assembly with the posts placed 11’ from the house wall, will be 8’ minus 2 3/4” (11 x 1/4”) = 7’ 9 1/4”.

Once you have determined the finished height of your posts you can get ready to install them. Posts should be plumb. In the case of anchoring your posts to a cement surface we recommend they be at least 4” away from the edge of the slab or expansion joint. The bottom brackets have single holes on the bottom flanges. Line up the holes along your chalk line. **Post spacing is indicated in your quotation.**

**WARNING:** Your post placements MUST be square relative to the rear fascia gutter assembly. One way to achieve this would be to temporarily insert side fascia gutters into front fascia gutter corner assemblies. Once posts are cut, with the help of one or more assistants (depending on the size of your awning) hoist the front fascia (or beam) and side fascia gutter assemblies up and support the assembly with ladders or wooden braces so that you can insert the side fascia gutters into the rear fascia corner assemblies and then put the posts into place under the front fascia gutter (or beam) (**do not do this on a windy day**)! “Square” up the awning perimeter by temporarily installing an awning pan about every 6 to 10 feet. This is IMPORTANT!

You can of course run chalk lines off the ends of the rear fascia gutter installation plumb to the deck or patio surface. Run another chalk line perpendicular from that line on the wall out along the surface of the decking or patio. Measure the exact distance of the ‘on center’ measurement of the distance your posts are to be installed on each of those perpendicular lines and then snap a chalk line connecting those two points. Make sure the measurement from corner to corner on the deck surface is exactly the same. This should give you a square installation.

**D.5** **Once you have squared your installation...**

Attach the bottom brackets with the supplied hardware (See illustration #5 & #6 on the next page). For those attaching to a wood deck we suggest using nuts and bolts secured to the underside of your deck boards. Alternatively we suggest going through the deck boards with a large lag screw into the support structure below. If you are cementing your posts into the ground, we suggest you ask for posts long enough where at least 2’ of the total height of the post is in the ground (See illustration #7 on the next page).
Drill a hole in the base material using the carbide drill bit supplied. Drill the hole to the specified embedment depth and blow it clean using compressed air.

Alternatively, drill the hole deep enough to accommodate embedment depth and dust from drilling.

Place the anchor in the fixture and drive into the hole until the washer and nut are tight against fixture. **Note:** We supply the hardware to attach the bracket to the post and cement anchors. *All other hardware would need to be purchased locally.*

**Anchoring your posts in the ground**

Using a Sonotube to capture the cement you pour can lead to a cleaner installation.
E.1 If you do **not** have a beam & post installation, go ahead and attach your front fascia gutter assembly with top post brackets to the posts you have just installed. You will attach your two side fascia gutter pieces into the rear and front corner pieces, caulking and screwing joints as you go. You last and final connection on the perimeter construction will be the top bracket to post connection.

E.2 If you have a beam & post installation, go ahead and attach your beam to your posts using the supplied brackets and hardware. You may also attach the side fascia to the backwall corner assembly and to the beam you have just installed *(see also D.2)* Lastly you can install and connect the front fascia gutter assembly onto the sides

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**F. Drain Installation**

You will receive ‘drain scuppers’ in your parts box. You can use these OR you can purchase a downspout assembly locally. Note that a minimum of 3 drain caps (scuppers) are to be installed in the front fascia gutter, one in the center and one each on either end, 12” away from each corner. One drain cap per 100 sq. ft. of canopy.
G. **Awning Pan Installation:**
With the perimeter installed and squared up, start installing the awning pans on the left side of the awning (left is determined by facing the structure to which the awning is being attached). The edge of the very first and the very last pan ride in the upper slot of the extruded side fascias.

You may need to "squeeze" the pans slightly as you go in order to stay on the marks you have placed on the rear and front fascia gutters. The pans are designed to interlock by "rolling" the edge of each consecutive pan into the lock of previously installed pan.

Screw down each pan as you go and pay attention to your spacing marks as you progress (see “tip” at the bottom of page 3). You may want to caulk the exposed screw heads as you go. Continue installing panels and reuse your "temporary" stabilizing panels as you go. Occasionally check both corners for square-ness. If a correction needs to be made, do it immediately, as the awning becomes stronger with each screw that is applied! When all awning pans are securely fastened in place, screw the fastener bar with #10 x 3/8” SM screws through the fastener bar and each roof panel ‘interlock.’

Afterward you may then install your optional leaf guards. Leaf guards are not available on the 12” flat pan systems.

G. **Flashing:** (not supplied with the kit)
Depending on your situation, you may want to caulk your flashing installation both before and after you install the flashing. Install the flashing to the structure by tucking it under the existing roofing material or edge metals if possible and screwing it to the awning ONLY ON THE VERY TOP OF THE INTERLOCKS of the awning pans. Caulk where necessary. Apply caulking over all exposed screw heads on the top of the awning. If you are installing your unit directly underneath an overhang projecting 12” or more from the structure and the unit will be installed within 5 inches of the underside height of the overhang, the flashing is not normally needed.
That's all there is to it!

ENJOY YOUR NEW PATIO COVER!

**DISCLAIMER:** This document is intended as a ‘guide’ only. There are far too many variables within existing structures for us to address each and every one. As such this kit is very adaptable. Assembling this “materials supplied kit“ will require patience & common sense. If you have any doubts about the action you should take we will gladly lend our expertise... please call us toll free. Home Porch & Patio Kits will not be responsible for errors in cuts made to the material. If we can reasonably demonstrate that you had enough material to complete the job, you will need to purchase additional material. We will always work to get the material to you in the cheapest and fastest manner possible.

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