

## Installation Instructions for National Pool Fence

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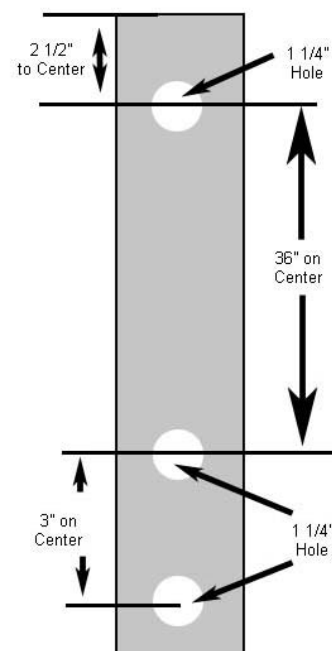
### Tools Needed For Installation:

- Core Drill – Adjustable level water cooled core drill with 1 ¼” diamond core drill bits. (Available for sale @ [www.NationalPoolFence.com](http://www.NationalPoolFence.com))
- Water Hose and Extension Cords (for Drill Operation)
- 4 foot piece of 1x2 aluminum angle (for Template construction)
- China Marker or Colored Pencil
- Needle Nose Pliers (for removing cores from deck holes)
- Cordless Drill (to remove and replace screws from “cut sections”, etc)
- Utility Knife and Scissors (for Cutting mesh when making “cut sections”)
- Staples (for making “cut sections”)
- Tape Measure
- Chalk Line
- Rubber Mallet
- Screw Drivers (Standard and Phillips)
- Drill Bits and Masonry Bits
- Hack Saw (for occasional pole height adjustments)

### Step 1 Making the Template

Take the 4' piece of 1x2 aluminum angle and measure down 2 ½ inches from one edge and mark. Drill a 1 ¼ inch hole using this mark as the center point. Measure down 36” from the center of the first hole; Mark and drill your second 1 ¼” hole. Finally measure down an additional 3”; Mark and drill your final 1 ¼” hole.

Measuring Template



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## Step 2 – Determine the Path

Determine the path of the fence keeping a minimum distance of 20" (Florida Code requirement) from the pool and a minimum distance of 36" (Egress Requirement) from the house. In certain jurisdictions requirements may vary please modify accordingly. Ideally the fence should be at least 24" away from the pool. Plot the path of the fence using the chalk line (Note: Using longer straight lines will give the fence a cleaner look). Note: When plotting the path try to keep 36" from objects that a child might climb on; i.e. planters and low walls. Also be careful of running the fence close to windows and doors as they must meet pool safety requirements.

**Step 3 – Mark the Layout** If you are attaching the fence to an existing structure, i.e. House or wall Follow these steps if not please skip to step 4.

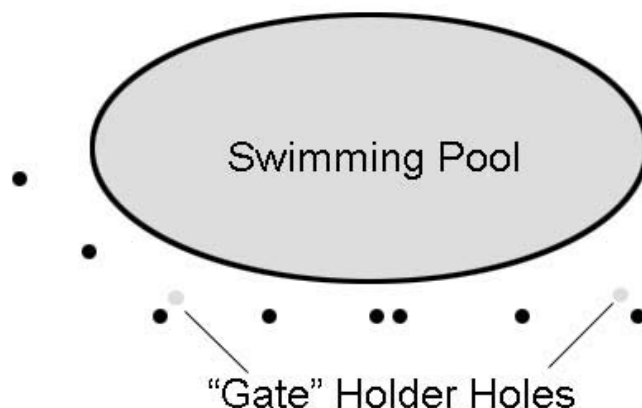
Determine your beginning point and using your template to mark your first hole 2 ½ inches from the structure. Then use the template to measure 36" on center from the first hole and mark the next hole. Proceed onto the next hole using the template to mark the 36" on center from the previous mark. Continue in this fashion until you reach the end of a 15' run. Then using your template make your next mark 3" on center previous to the last mark, then continue with 36" marks on the next 15' run. Note: make sure to mark for gate openings (using step 4) when you reach their desired location. When you reach a final end point you will usually not end up with a full 36" panel. Use your template and mark a hole 2 ½ inches from the structure as your final end point.

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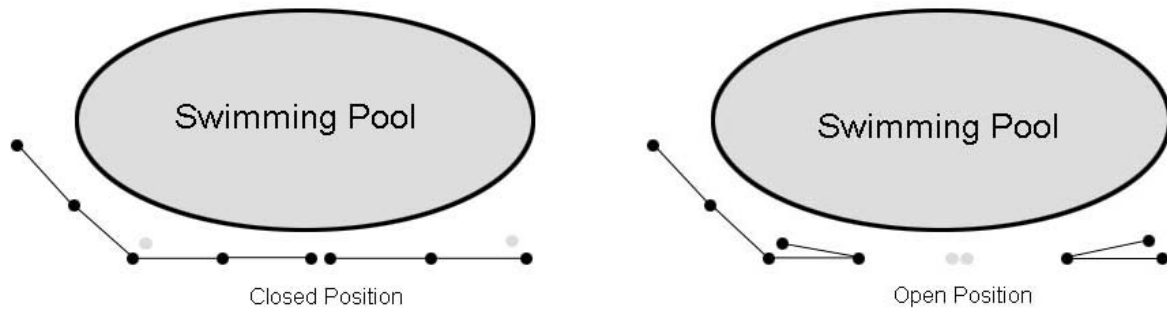
## Step 4 – Entrance / Perimeter Installment

There are two options for installation. The first option is to incorporate as many straight runs as possible. The second option is to follow the exact curvature of the pool keeping a set distance between the fence and the pool. Whichever option you choose make sure to keep at least 20" between the fence and the pool.

First determine the location of the entrance, and mark your "first gate holder hole" (this is not a gate in the traditional sense but an entrance in the fence to your pool). Use your template to measure 3" on center to the first hole and mark your "second gate holder hole". Use your template and mark another hole 36" from either gate hole. Continue to make another hole in the same fashion. Now, using the same procedure, mark 2 holes on the other side of the gate (spaced 36"). Next, mark the gate holder holes: locate the second hole (72") from the gate hole. Using your template measure 3" on center in towards the pool and angled towards the gate entrance at a 45 degree angle. Repeat the procedure for the other side of the gate. Use the template to continue to mark holes every 36" on center to the previous one until you reach the end of a 15' run (5 panels). Then using your template make a hole 3" center to the previous hole, similar to the gate opening. Continue in this way (15' runs) until you reach the half way point. Go back to the gate opening and work in the opposite direction. Note: When you reach a final end point by completely encircling the pool, you will usually not end up with a full 36" panel. Mark your hole 3" on center from the end point. This will be a cut section described in section 6.

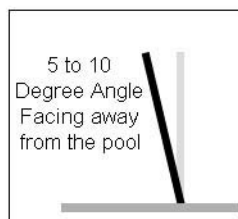
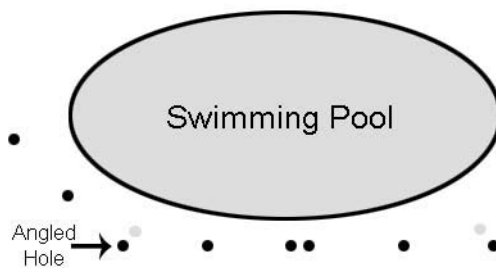


## Gate Opening



### Step 5 – Drill Holes

Use a mounted core drill with 1 ¼" diamond drill bit. Keep the drill level and drill your first hole 3.5" deep. Continue to drill holes level until you reach a point where the fence makes any turn (even a slight one). For holes on turns drill at an angle between 5 and 10 degrees in the direction away from the turn; the more extreme the turn the more extreme the angle needs to be. This is necessary to maintain the tension of the fence system. If the next hole is on a straight run it should be drilled again at level, however if the fence is following the curve of the pool it should be drilled at an angle. Note: Holes only need to be drilled at an angle the fence is curving at that point. Once all the holes have been drilled remove the cores using a pair of needle nose pliers.

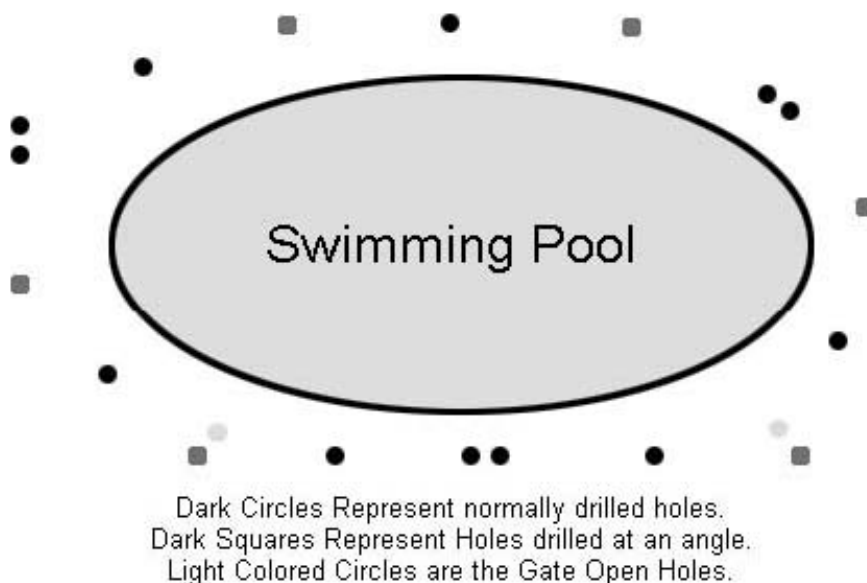


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## Step 6 – Install the Fence System

First insert the sleeves into holes, it may be necessary to use the rubber mallet. Next insert the fence posts into the holes (with sleeves inside) with the screws and molding facing away from the pool. Attach fence sections together using the hook and eye latches.

**Cut Sections:** sections where you need less than a full 36" panel. First insert the final pole and cut away additional panels. Now measure the distance between the final 2 holes. Pull the fence taut by winding the excess fence onto the last pole. Using the measurement you just took mark the top and bottom of the fence border, measuring from the next to last pole to the last pole. Take down the last section of fence and lay it on the ground, with screws and molding facing up. Unscrew the cove molding from the last pole and place the pole to the side. Fold the excess mesh under making a crease ½" to the outside of the marks you made on the fence, and staple the border and mesh together. Using those marks as a center point reattach the mesh and molding to the pole starting with the screw at the top of the pole and screw at the bottom second. Attach the remaining screws alternating ends and smoothing the mesh as you go. When using this method to make a cut section it is important to reattach the mesh and molding using #10x5/8" fasteners provided in the finishing kit. This is to compensate for the thickening that occurs when the border material and mesh are folded. Trim the excess mesh and the cut section is complete.



Completed Sample Installation

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**Step 7 – Permanently attach one end of the fence to a deck or existing structure (required by Florida Code)**

Locate the last pole at one end of the fence system. Attach the bottom of the pole to the deck using the 2 x 2 x 1/8" angle clip or attach the top of the pole to an existing structure using the quick link chain assembly.

Congratulations you have finished installing your new ProFence.