

## BRACCI BASIN CONSTRUCTION

Model 3249-12 or 3249-16

Fountain Models –F12 or –F16

Note: This is a sectional basin which consists of:

10 x 3249 (12x -L 3249-16)

10 x 3249-T (12x -TL 3249-16)

The Bracci Basin is not a self-contained water feature. The recommended ¼-HP (2400 GPH) exterior-pool style pump with recommended sand- and UV-filtration system is positioned outside the diameter of the basin. The fountain's water supply must be prepared using ½" PVC from the planned center of the basin down 18" and out to the pump site where it should resurface. The return from basin to the pump is spotted centered between the absolute center of the basin and the interior wall of the basin. (See Fig. 1)

The entire area, 3249-12 minimum 14' and 3249-16 minimum 18' should be excavated to a minimum 6" below grade and any additional plumbing, such as a drain and/or submersible lights should be placed inside the foundation's perimeter.

(Keep 3' radius from center feed clear for fountain)

Fill and level the entire area with sand approx. 2-inches.

Using 4" bender board, stake a 13' (3249-12) or 17' (3249-16) diameter to create a concrete slab cast. Place ½" rebar 1' off center and raise 2" from sand using concrete blocks. Pour and finish a 4" concrete slab. Cure slab for 7 days. Place and space each of the Bracci Basin components 3249 (-L) and 3249-T(L) see number sequence in figure 2. Space each component piece approximately ½" using a carpenter's pencil which has a ½" width. Note that when placing the bases, the caps 3249-T(L) are placed with an off-center overlap. Remove caps 3249-T(L) and mark the location of the holes cast in each base component (4x10) to anchor the basin to the concrete foundation (see Fig. 2).

Remove all base components and drill ¾" holes (a) approximately 2" deep at all previously marked spots. Remove dust and debris, apply epoxy to the holes (a). Use shims to place base components ½" from concrete slab. Set first base component and place rebar in the holes filled with epoxy. Each base component requires 4 pieces of ½" rebar (b) approx. 12" long (not included). Using the exact same spacing during the dry set-up, place each component ½" up from the slab using shims. Fill all joints, with a dry-pack grout moving left to right (see number sequence in figure 2). This to ensure mortar remains fresh all the way around. Wait 24-hours to remove shims and fill all holes with mortar to secure rebar pieces followed by placing each of the 3249-T(L) with an off-center overlap to the bases in the sequence shown in the figure below maintaining the same spacing as was used during the dry set-up.

Also see 3249-12/3249-16 addendum

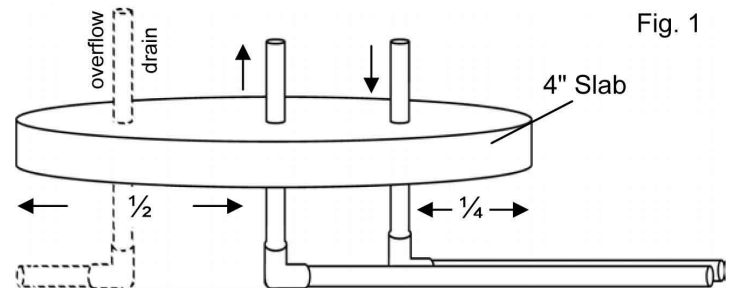


Fig. 1

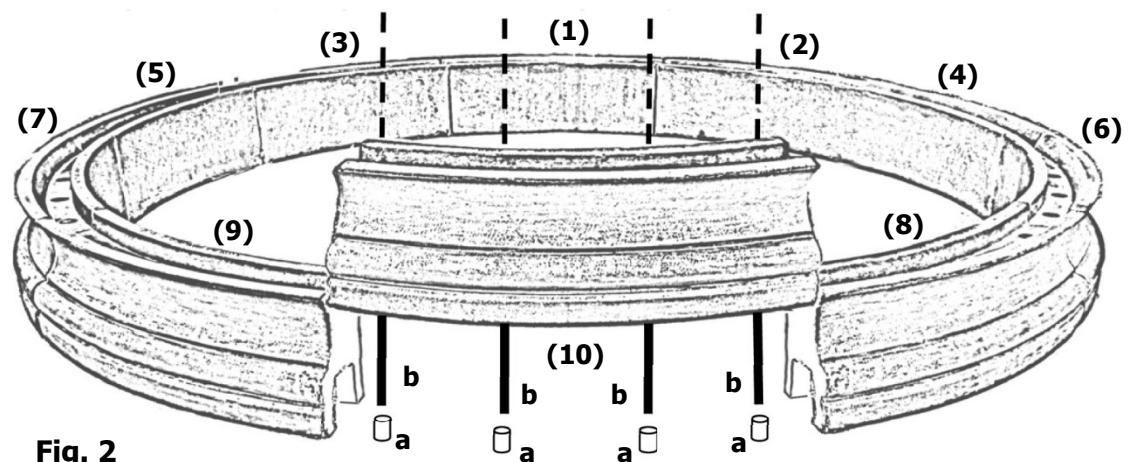


Fig. 2

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### (addendum to 3249-12 or 3249-16 installation instructions)

This page covers (3) topics in Preparation

- (1) Preparation of concrete slab ref.: 3249-12 or 3249-16 Installation Instructions
- (2) Additional recommendations for assembly of the coping pieces and water proofing
- (3) Subsequent installation of the Fountain inside the basin

(1) the preparation, plumbing and pouring of the cement slab which will function as the bottom of the basin, carefully review the attached Installation Instructions Model: 3249-12 or 3249-16 (attached page).

Also, we would encourage consumers to consult with a swimming pool contractor. Especially when it comes to plumbing which will have to be installed to-and-from the cement slab to accommodate the exterior pool-type pump and filtration system required to maintain a 1-foot deep 10-foot diameter body of water.

Note: The minimum requirement is a 2,400-GPH which should be used within 10-feet from the outer diameter of the basin. For commercial/consumer use, Fiore Stone recommends a sand and UV Filtration Systems to avoid the use of chlorine and other harsh, harmful chemicals to concrete.

(2) for assembly of the Bracci Basin, we recommend spacing each component piece approximately  $\frac{1}{2}$ " (suggest using a carpenter's pencil which has a  $\frac{1}{2}$ " width) to space the coping pieces. Mark each base coping piece and drill holes for vertical pieces of rebar to be epoxied. Optional: some installers add a rebar ring wired horizontally underneath the base coping pieces to the vertical rebar pieces epoxied to the basin floor for additional reinforcement. Shims may be used to level each coping piece. Instead of using 3" masking tape to seal and tape-off all the seams around ahead of a single pour, we recommend to "grout" all the seams with Quickcrete Mortar Mix with some extra Riverside Plastic Cement to make it stronger the day before pouring cement down the holes at the top of the coping pieces.

As illustrated in the Bracci Basin Installation Instructions (topic 1), each coping piece has 4 x 2" holes for vertical rebar and there is a U-shaped channel all the way around the top and bottom of the coping pieces. This allows for a cement mortar (recommended Riverside Plastic Cement, Quickcrete Bonding Adhesive and silica sand #30) to fill the entire interior and large cavity along the bottom of all the coping pieces which also allows for a ring of rebar to be wired to the vertical rebar pieces and allows for the mortar mix to flow around underneath all the coping pieces. You'll know when the entire basin wall is filled when cement comes up on the opposite side while poking the cement.

After the bottom coping piece have set, the top pieces can be placed using the same concrete mixture to place the top-pieces off-center from the base pieces and shims may again be used to level each coping piece which can subsequently be grouted after the cement has set and can support each of the top coping pieces. Optional: some installers add an additional rebar ring to be placed horizontally inside the U-channel at the top of the base coping pieces and underneath the top coping pieces for additional reinforcement. Especially, on the last step, please use caution as there is a potential for cement to squeeze out over the top of the base coping pieces as the top pieces are set in place.

Finally, before installing the fountain pieces, we strongly recommend waterproofing the interior of the Bracci Basin with a water proofing membrane, like "The Blue Stuff" called Mulasticoat to prevent moisture from leaching out of the grout joints. Please visit: [http://multicoat.com/products/waterproofing/ponds\\_water\\_features.php](http://multicoat.com/products/waterproofing/ponds_water_features.php)

(3) Please refer to our Type C Assembly Instructions and specifically the illustration on Page 4 where  $\frac{1}{2}$ " PVC is referenced regarding the fountain plumbing from the 'submersible' pump up. For fountains installed with an exterior pool type pump the principles remain the same and extra diameter PVC 1- $\frac{1}{2}$ " diameter is added underneath the assembly instructions illustration (omitting the image of the pump and the basin is considered the first "tier" or bowl. Steps 6 thru 10 should be followed once inside the 72" or 74" Extra Large (largest) Bowl. (see 3249-12 or 3249-16 Installation Instructions page)

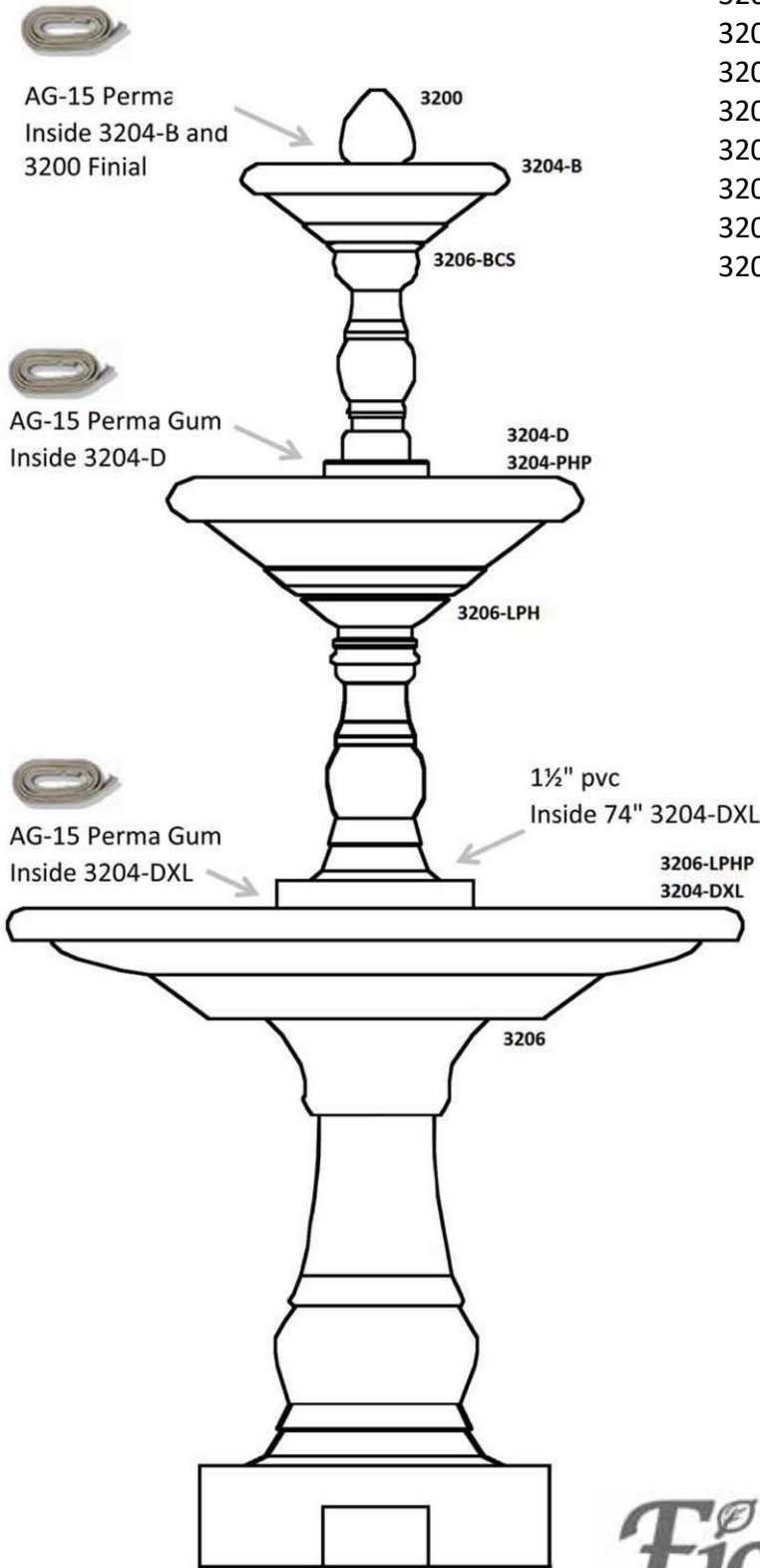
We hope these detail helps you and your contractor and welcome the opportunity to answer any additional questions you may have via e-mail at [info@fiorefountains.com](mailto:info@fiorefountains.com)

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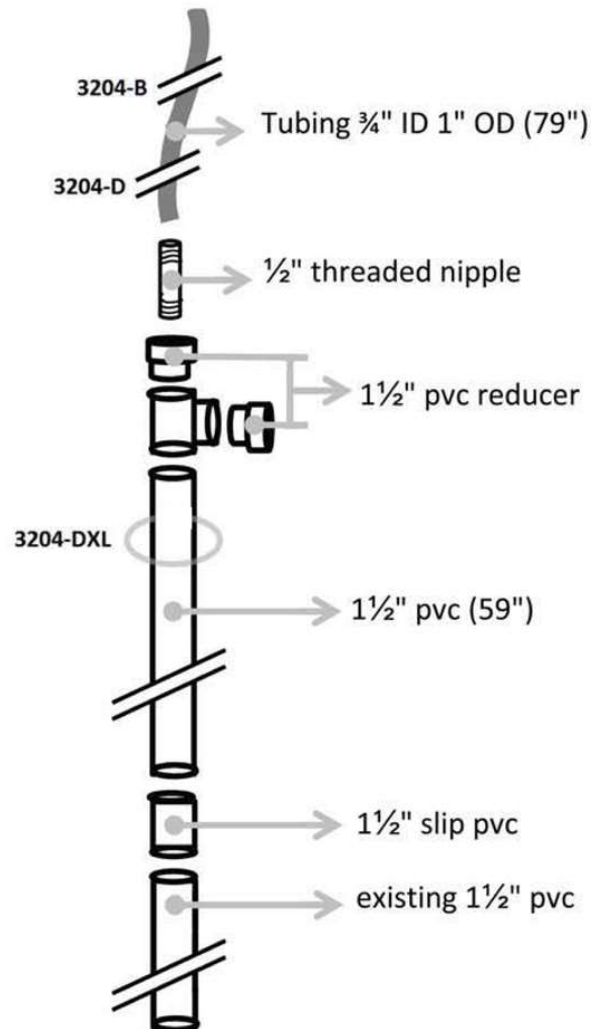
**2134-F 3-Tier Four Seasons Fountain, Plumbed**  
 Size h144" w74"

Consists of:

|                            |                      |
|----------------------------|----------------------|
| 3200 Finial                | H-11" W-7"           |
| 3204-B Bowl, Small         | H-8" W-24"           |
| 3206-BCS Spacer, Small     | H-24" TD-9" BD-13"   |
| 3204-D Bowl, Large         | H-13" W-47½"         |
| 3204-PHP Bowl Piece        | H-7" W-9" D-3"       |
| 3206-LPH Spacer, Large     | H-35" TD-18" BD-17½" |
| 3206-LPHP Spacer Piece     | H-6" W-7¾"           |
| 3204-DXL Bowl, Extra Large | H-11" W-74"          |
| 3206 Pedestal              | H-44" W-23" D-23"    |
| 3206-PHP Pedestal Piece    | H-7" W-7" D-3½"      |



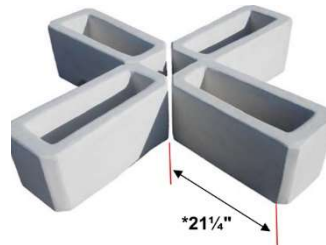
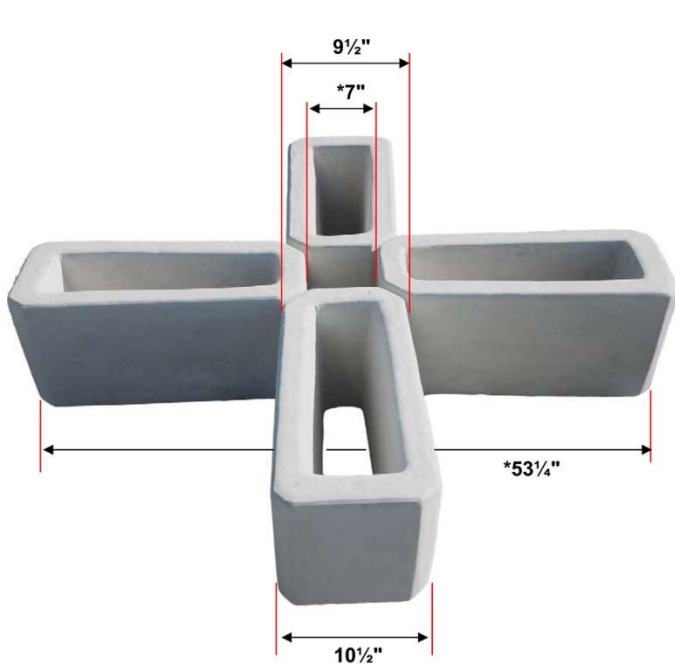
Basin requirement minimum 10-foot



## Plumbing Instructions/Suggestion (model 257-PL, 257-FP, 258-FLCP)

The lion fountain is the signature and most impressive fountain in the Al's Garden Art product line. Prior to installation, this fountain should only be considered for placement in basins or ponds with a minimum inside diameter of 10 ft. Basins of this size require a minimum one-quarter horsepower exterior, pool-style pump with sand and UV-filtration system. To maintain this system, and depending on the placement, we recommend to source this locally from a pool supplier or contractor. A submersible pump would not be sufficient for this amount of water to be displaced.

The water supply for the Lion Fountain should be provided in the center of the basin. Depending on your specific application you may want to reduce your plumbing to a suggested 1½-inch, schedule 40 PVC pipe which should rise to about 16-inches of the basin floor.



If your lion fountain is configured to supply water to the Lion with Ball Pedestals (2) 3053-PL & (2) 3053-PR, (2) "Tee" couplings or (1) cross (4-way coupling) should be placed on the main PVC pipe. Attached to this cross or from these "Tee" couplings you will need to branch off with additional ½-inch barbed "Tee" couplings (one on each side). Using (4) 2-foot sections of ⅝-inch OD ½-inch ID vinyl tubing attach the water supply (black Tees) to the ½-inch copper tubing molded into the back of each one of the four lion pedestals.

After the "Tee's" or from the cross, a 4-foot section of 1 inch PVC pipe should be placed upwards to supply water to the remainder of the fountain and guided through the hole provided in the Large Lion Bowl (3054-



P). The PVC pipe should be long enough to appear on the inside of the Large Lion bowl and cut at about 3 inches. The space between bowl and pipe should be filled with RA-15 Perma Gum to ensure that water will not escape through the center of the bowl. This step should be repeated for each additional bowl going up. During installation, one lion pedestal may be left at an angle so plumbing can be accessed and guided through the Large Lion Bowl as it is placed on the pedestals. This pedestal, however, should be turned into position before the complete weight of the Lion Bowl and any additional concrete pieces are placed on the pedestals. Because the Large Lion Bowl 3054-P requires more water than the smaller bowls a PVC "Tee" should be placed at the end of the pipe. This will allow water to escape before it reaches the top of the lion fountain and provide more water to the Large Lion Bowl. The rest of the fountain will be supplied by use of ⅝-inch OD ½-inch ID vinyl tubing from the final PVC "Tee" inside of the Large Lion Bowl, through the remaining pedestals and bowls to provide water to the top of the fountain.

If after installation too much water is coming out of the top finial, causing excess amounts of splash it can be reduced by cutting 1-inch sections of the tubing inside the finial. This will allow water to back down inside the finial and run down inside the bowl below. Note that as mentioned before, the remaining bowls should be sealed as was done with the Large Lion Bowl. Unlike with smaller self-contained water features and because of the use of a much stronger exterior pool-style pump, be sure to seal and glue each plumbing attachment with PVC glue.

Leveling is an important part of the overall success of your installation project and should be done by use of water and/or a water level during the placement of each component. All concrete parts and pieces are poured in molds and finished by hand. None are level by design. We suggest turning concrete pieces to their most level position followed by plastic or hardwood shims to level all component pieces.

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