

5 Ft Triple Modular

New Product for 07

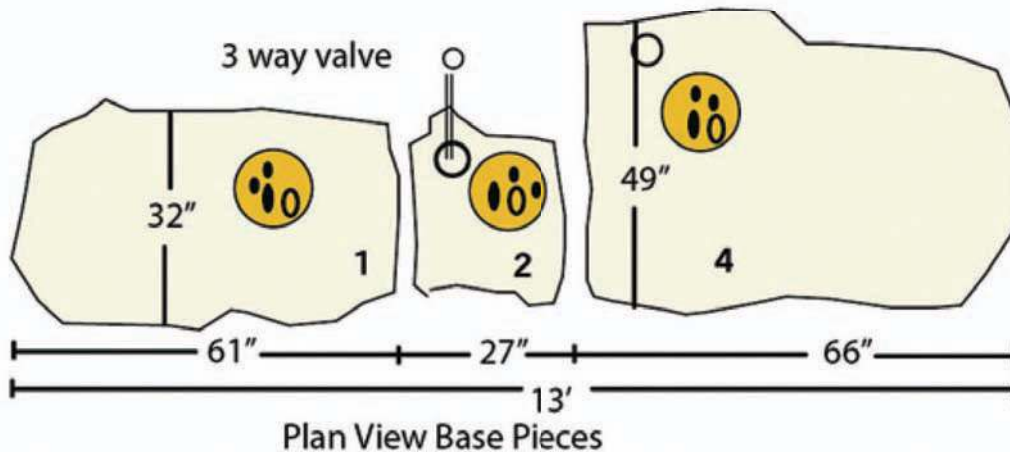


5 Ft Triple Waterfall, 2007 model

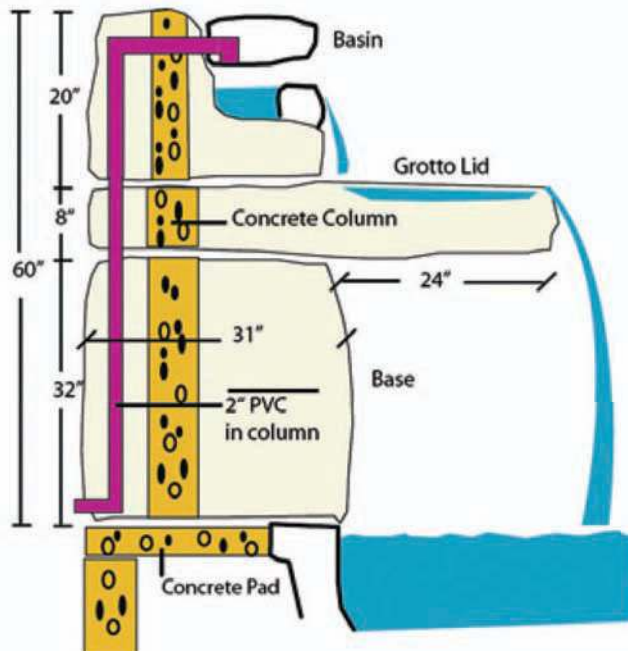
Kit includes 12 cast rock pieces, plus small diverter rocks
Rebar columns included, 2 inch pvc plumbing & 3 way valve

Ships on 2 large pallets, total weight about 2,400 lbs

Plan View



Cross Section



This is our most complicated Modular Waterfall Kit. Several pieces weigh about 300 lbs; a tree dolly and 4 men are probably needed for installation.

Rebar dowels into a concrete foundation are recommended. The grotto lid will need to be braced until concrete is dry. After inserting the rebar column in the 12 inch sleeve fill the hole with 2000 psi concrete; this locks in all layers and makes the structure very solid.

A 3 way valve is needed to control water flow to the right side; the left spillway also serves as a draindown.

5 Ft Triple, installation sequence





5 Ft. Triple *Modular*

Properly installed, this waterfall is strong enough to climb or sit on and it comes with a 5 year limited warranty. There is no engineering available (Structural Waterfalls are available with rebar cages and engineering specs but they require rock making skills and more time to install.) Installers are responsible for determining if permits are required; many areas require a bonding wire to the rebar columns.

The concrete foundation must bear an installed weight of 3,500 lbs, evenly distributed over 35 sq ft, about 100 lbs per sq ft. Existing decks may be adequate; on new pools a 4 inch slab level with the pool bond beam is required. Slope slab towards pool if possible. Deepened footings are recommended in frost areas or in poor soil conditions.

Installation:

TOOLS NEEDED: Mortar mixer, wheelbarrow and trowel. A tree dolly is useful in moving the heaviest pieces but 4 men will be needed for a few hours during placement.

MATERIALS NEEDED: 6-8 bags (94lb) of Mortar Cement and 1/2 yard of mortar sand are needed; more for a custom application with wide gaps. A roof jack or 2x4 braces are needed to support the grotto lid until the concrete is cured. The shipping pallet is 7 ft long and might work, depending on the pool depth.

1. Dry set the base pieces #1 & #2 for alignment and to mark where to add rebar dowels. Epoxy or anchor set #4 rebar dowels (included) so they align with center of concrete columns.
2. Set base pieces #1 & #2 with 1-2 inches of rich mortar. Front edge should overhang pool 1-2 inches as a drip line.
3. The grotto lid, #3, is the heaviest piece at 350-400 lbs. Set it on a 2 inch mortar bed, in line with the concrete and plumbing columns of the base pieces. The weir must be level from left to right and it should slope slightly towards pool.
4. The grotto lid must be braced because it is front heavy at this point. Add rebar to columns and fill with 2000 psi concrete or better.
5. The sequence is not critical; the basin #6 can mortared or the side pieces #4 & #5. Water will be running over the joints so good mortar should be used and if the bottom piece slopes forward it will direct any seepage forward.
6. Continue to mortar pieces, enough to bond the pieces but not an excess that will make the clean-up last longer than the install.
7. It's best to let the mortar dry before raking and tooling the joints. Wet mortar smears and re-coloring will be needed to cover the cement film.
8. Install the plumbing in the sleeves. A 3 way valve is included, to direct water as needed. A hollow rock can be mortared over any exposed plumbing and the cap rocks are designed to disguise the pipes from the front.

Be sure not to move or disturb the pieces as the mortar is setting or the mortar bond will be broken. Recommended flow rate is 100 gpm; usually a 1 1/2 or 2 hspr pump is used.