INSTALLATION

Trilogy Pools, LLC Manufactures a one-piece fiberglass shell at its facility in Fayetteville, TN. The shell can be divided generally into two layers. A cosmetic, un-reinforced gel coat layer and a fiberglass reinforced plastic (FRP) structural layer. The cosmetic layer varies in thickness from approximately 25 mils (0.64 mm) for standard gel coat finishes and up to 35 mils (0.89 mm) for solid surface finishes. The structural layer ranges from 0.3 inches (0.76 cm) to 0.375 inches (0.95 cm) thick in the bulk laminate and up to 0.975 inches (2.48 cm) in areas of sandwich core construction. The structural layer is composed of various combinations of polyester resins and fiberglass chopped riving and woven riving cloth. Trilogy Pools, LLC produces various styles and shapes of swimming pools, spas, tanning ledges and water features.

The fiberglass laminate schedule used by Trilogy Pools, LLC has been tested according to ASTM D 790 with an average flexural strength of 37,125 psi and an average tensile strength of 15,784 psi. The upper perimeter of the pool is constrained by a concrete bond beam that is continuous around the entire pool. This structurally ties the entire shell into the concrete pool deck.

All plumbing and electrical work must comply with the local and national codes currently in effect at the site and at the time of construction. All plumbing should be designed to run from the shell exit point down to undisturbed soil, or bottom bedding and then out of the excavation to avoid cracking with any settling of the backfill.

The excavation of the site will coincide to the size and shape of the pool. Typically a 6 to 12 inch over excavation will be sufficient to adequately access all plumbing. Over excavation for the depth is typically less than 4 inches and varies slightly based on local soil type. A bed of sand or ½ inch washed gravel (preferred) is placed on the bottom of the hole and graded to match the slope of the pool shell. The pool shell is delivered to the construction site by truck and a crane is used to lower the shell into the hole. Once in place, the shell is leveled to within 1 inch around the entire perimeter of the pool and spa. This is accomplished through the successive addition and removal of bedding material as necessary. When sand is used to backfill over excavation, it should be washed in place using water and manually tampered to aid in removing air voids and completely packing backfill. Washed gravel will achieve sufficient packing without tamping or washing. See SECTION A-A.

DETAILS ON LEVELING THE POOL

Once the pool has been placed, it is checked for level around the upper perimeter and should be adjusted to less than 1 inch. On most pool shells (check EXCAVATION NOTES for specific shell being installed), water can be filled to the bottom of the first step and then the pool should be checked to assure it is still level. If not, the water should be completely removed and bedding material added and removed as necessary to achieve level. As the pool is filled with water, the level should always be kept approximately 12 inches above the backfill level. If during the backfill process, the pool shell distorts outward, the water level is lowered and the backfill increased to correct level. If the pool shell distorts inward, the backfill is excavated until shell releases back. This pool should not require annual draining for service. If draining is ever required, the owner, or their agents, must first receive written permission and instructions from Trilogy Pools, LLC.

CONCRETE DECKS

A standard cantilevered concrete deck, as shown in SECTION A-A (Option A), requires that forms be placed on the inside perimeter of the pool. These forms are attached to the pool coping every 16 inches using supplied wire ties and screws. Cantilever forms are typically installed on the same day or the day before the concrete pour. The backfill should be removed for the top 8 inches around the pool perimeter to a width of approximately 10 inches. In areas of sandy soil conditions, the material is typically removed just prior to pouring deck. Care should be taken that the concrete is worked into this area under the coping of the pool so that air voids are minimized. If desired, ½ inch holes may be drilled every 36 inches to aid in bleeding air. Rebar or wire mesh should be used in the concrete deck. For decks using pavers, as shown in SECTION A-A (Option B, Option C), the concrete deck should be poured up to approximately ¼ inch of the top of the pool coping. Deck should fall ¼ inch per 12 inches to allow any surface water to be drained away from the pool.

PICASSO POOL

OPTION 2

SMALL TANNING LEDGE

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**FIBERGLASS TANNING LEDGE**

- **Size (Outside):** 11' 9"x5-7"
- **Perimeter:** 25'-2" (OUTSIDE FEET)
- **Surface Area:** 34.6' (SQ FT)
- **Depth:** 10"
- **Gallons:** 165
- **CUTAWAY:** BRICK PAVER
- **Note:** 4" Wide Flange
- **Set Coping in Thinset W/ Latex Additive** (OPTION B)
- **See "Brick Coping DTL. (OPTION B)"

**Gravel Bed**
- 4" Concrete W/ 6"x6" - 10/10 W.M.
- Or #3 Rebar On 3"-10" O.C. Both Ways
- Wall Forms are Typically 12" in Height
- Raised Wall Forms
- Bolt that attaches Raised Wall to Pool Beam
- Fiberglass Pool Shell
- Undisturbed Earth

**Raised Wall Forms**
- 4" Offset Between Spa & Pool Outside Flange

**CUTAWAY BRICK PAVER**
- 4" Offset Between Spa & Pool Outside Flange
- Refer to Picasso-019 for Pool Dig Specs

**Drawing Information**
- SMALL PICASSO TANNING
- REV: .01.09
- DATE: 01/31/09
- SCALE: NTS
- SHEET: 2 of 3

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1. We recommend minimizing the depth of the overdig to 2-4 inches.
2. We recommend using 1/2 inch washed gravel to build base on which to set pool. This same medium should be used to backfill pools.
3. Run plumbing lines at bottom of excavation on gravel to ensure that the earth beneath the pipe will not settle and allow pipe to sag and crack or pull out of a fitting.
4. Before cutting any holes check the backside/outside of shell to be sure you are not cutting into a steel hook or sandwich core.
5. Pool may be filled to the top of the lowest step with no backfill.

EXCAVATION NOTES:

**EXCAVATION DIG BOUNDARIES**

**TOP VIEW**

**SIDE VIEW**

**DIG POINTS: AB CD EF**

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**REFERENCE TO PICASSO FOR POOL DIG SPECS**