

Metric Round Residential Swimming Pool



IMPORTANT SAFETY INFORMATION

Enclosed in the liner box is the safety envelope. The safety stickers must be installed as per instructions. Failure to properly install warning labels will void warranty. Alert all visitors and family of the risks associated with jumping and/or diving and point out all warning labels supplied. Failure to mount these safety labels may subject you to substantial liability in case of injury.

Your pool is designed for years of pleasurable, safe family fun. However, when used incorrectly, a swimming pool can be dangerous. To insure your pool is used safely you must observe the following safety precautions:

- 1. Do not dive, do not jump, no rough play, no running or pushing.
- 2. Be sure to install all safety labels provided with your pool according to the safety instructions.
- 3. Keep a 50' safety rope with a flotation buoy with an outside diameter of 15" accessible in a prominent area by your pool.
- 4. Post near all entrances to the pool area a list of telephone numbers for the following:
 - a. Local police
 - b. Local fire department
 - c. Local rescue unit
 - d. Local ambulance service
 - e. Local hospital
 - f. 911 emergency number, if available
- 5. Provide fencing or an enclosure which is independent of the house as a closure around the entire pool area. The fencing must be made of durable material, a minimum of 4' high from ground level and with closures with self-latching locks to make the pool inaccessible to toddlers and uninvited guests. Make sure the gate is always closed. Be sure to follow local building code requirements for load capacity and fencing if using an aftermarket or homebuilt deck.
- 6. Check with your local town or municipality in regard to obtaining a building permit and/or an electrical permit. The installer shall follow the regulations for set backs, barriers, devices and other conditions.
- 7. All electrical outlet connections should be a minimum of 5' from the outside perimeter of the wall of the pool. From 5'-10' there should be either a fixed connection (outlet box) or twist lock connection with a GFCI. Connect power cords to a 3-wire grounding-type outlet only.
- 8. Severe electrical shock could result if you install your pump or filter on a deck. They could fall into the water causing severe shock or electrocution. Do not install on a deck or other surface at, above or slightly below the top ledge of the pool, within 5 feet of pool water edge.
- 9. Do not sit, stand or climb on the pump and filter or any part of the pool structure. Components such as the filtration system, pumps and heater must be positioned so as to prevent their being used as a means of access to the pool by young children.
- 10. Never drink alcoholic beverages or use any intoxicants which could hinder your judgment and reflexes.
- 11. Never use the pool alone. All children must be supervised continuously.
- 12. Do not use pool if bottom is not clearly visible. At night, sufficient lighting must be available. It is the pool owners' sole responsibility to provide adequate lighting for the pool bottom, safety signs and walkways, which exceeds minimum standards of the IES of North America.
- 13. Be sure that all toys, chairs and tables or similar objects that a young child could climb on be at least 4' from the pool.
- 14. Do not use pool during electrical or rain storms.
- 15. See available Association of Spa and Pool Professionals (APSP) publications for more tips on pool safety.

The Installation of the Radiant Metric Series Round pool is not hard, nor complicated. Although installation conditions might differ from this guide, it is important to consult with the manufacturer before making any changes that might disturb the integrity of the pool. Failure to follow these instructions will void all warranties. Read and follow all manufacturers' instructions including accessories such as pumps, filters, skimmers prior to starting.

Before you start, check your packing list to confirm that you have the correct number of parts and components. The manufacturer reserves the right to revise, change or modify construction of its pools. See packing list for pool components included for your pool. If there are any missing or damaged components, please contact your retailer for replacement.

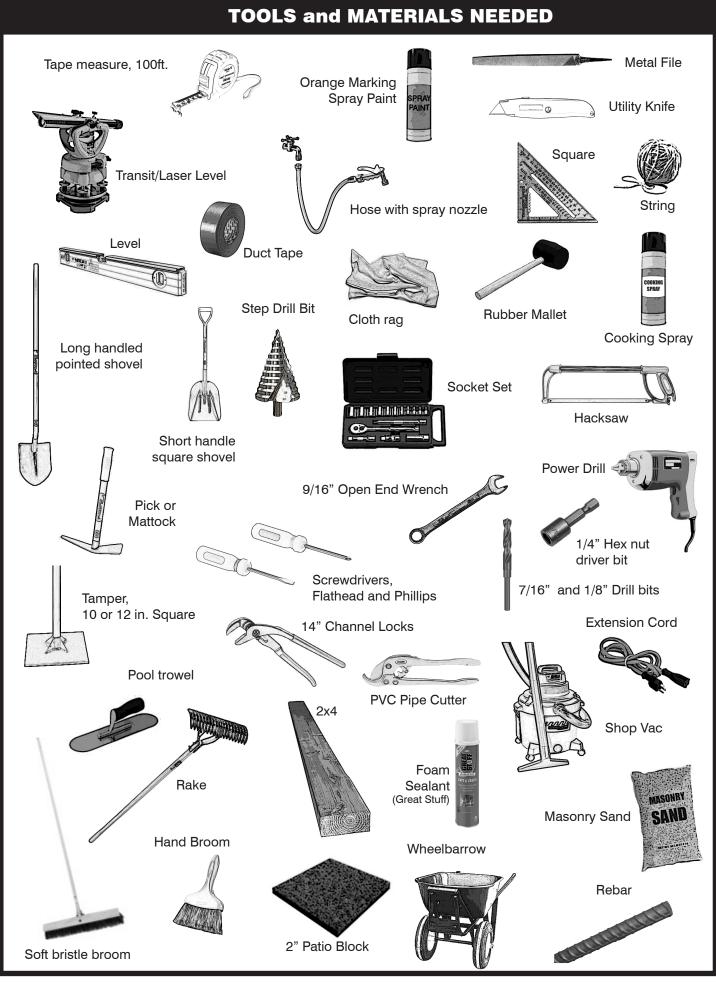
While all Radiant Pools are designed to meet or exceed industry recommended safety standards (ANSI/APSP-4 and 5 American National Standards for Residential Swimming Pools), special attention must be paid to all installation procedures that the installer performs and controls. Spend time to ensure that the entire pool framework is **perfectly level and square**. Unlevel pools place extreme pressures on the pool walls. A pool cove must also be installed. This keeps the pool liner from creeping out from under the pool wall. Be sure to follow these instructions. Improperly installed pools can rupture, allowing thousands of gallons of water to rush out causing extensive property damage and injury to anyone in its path. As with any major home project, a homeowner is responsible for following all local laws, ordinances and codes. Electrical grounding of swimming pool is required. National and local codes must be followed. A checklist is provided below as a guide for these considerations.

V	HOMEOWNER CHECKLIST
	Obtain building permit if required.
	Local building and zoning requirements
	Electrical and Grounding requirements
	Have Ground Tested for Stray Electricity
	Proper Backfill and Drainage
	Fencing requirements
	Backwash (waste water) requirements
	Check availability of utilities.
	Call before you dig (www.digsafe.com)
NOT	ES:

With proper installation, care and maintenance, this Radiant Metric Series Residential Swimming Pool will provide a lifetime of fun and relaxation for the homeowner.

Radiant Pools offers a non-prorated, lifetime guarantee on the entire pool against manufacturing defects. Walls, structural supports and channels are guaranteed against defects due to faulty workmanship or manufacturing for as long as you own your home. Compare our warranty with any other pool. Engineering, innovation and efficiency make the difference.

It's simply brilliant.



IMPORTANT: BEFORE YOU BEGIN

The selection and preparation of the pool site is your responsibility. The manufacturer can only suggest the proper techniques, indicate the important considerations and emphasize the precautions and cannot be held responsible for damages to your pool that may result from failure to carefully follow all pool specifications.

All Radiant Pool components are engineered to provide a precise fit. It is very important to handle all components with care. Prior to assembly, all pool components should be free of sand, mud, dirt and debris of any kind.

IMPORTANT: DO NOT ALLOW SPLINES OR COMPRESSION SEAMS TO COME IN CONTACT WITH SAND OR OTHER DEBRIS AS THIS WILL CAUSE DIFFICULTY IN INSTALLATION.

We recommend a small broom or shop-vac to maintain a clean track system throughout the installation process. In addition we recommend a damp cloth be available in the event that any dirt or debris finds its way to the component surfaces.

POOL COMPONENTS CHECKLIST							
Component	16'	18'	21'	24'	27'	30'	33'
Panels	8	8	10	10	10	12	14
Anchor Plates	8	8	10	10	10	12	14
Coping	8	8	10	10	10	12	14
White Cap Screws	50	50	50	50	50	100	100
Coping Clips	8	8	10	10	10	12	14
Splines	16	16	20	20	20	24	28
Bolts (3/8"x 2 1/2")	16	16	20	20	20	24	28
Skimmer w/Mounting Kit	1	1	1	1	1	1	1
Return Fitting	1	1	1	1	1	1	1
Vinyl Liner	1	1	1	1	1	1	1

IMPORTANT: A concrete collar is required for any pool that is installed 26" or greater in the ground. See page 21 for details.

SELECTING POOL LOCATION

The selection and preparation of the pool site is your responsibility. The manufacturer can only suggest the proper techniques, indicate the important considerations and emphasize the precautions and cannot be held responsible for damages to your pool that may result from failure to carefully follow all pool specifications.

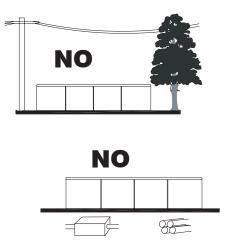
1. The surface on which your pool will stand must be absolutely level and solid. This condition should extend 2 feet beyond the actual pool area. The best surface is bare solid earth free from stones, roots and other sharp objects.



- 2. Allow plenty of play area around the pool. Fit the location into your landscaping plans.
- 3. The pool site must be accessible to electrical and water supply and should allow for disposal of great quantities of water when the pool is drained. All electric outlets within 10' must be GFI protected.
- 5. Do not set up your pool in hilly areas or areas with poor drainage. For Semi-Inground and Inground Installations:
 The site of installation must accomodate an efficient drainage system to minimize the impact of heavy rain and high ground water conditions.



- 4. When installing your pool on a solid level surface, it is imperative that you protect your pool and liner from chemicals and other foreign matter contained in the surface. Do not install your pool on peat moss, tar paper, roots, sticks, gravel or chemically treated or contaminated soil not approved for pool use. Any or all of these surfaces can ruin your pool and liner and will void your warranty. To prevent stones or other foreign material from damaging the liner it is recommended to build a 2" to 3" base of clean washed masonry sand or other suitable base material inside the entire pool.
- 5. If ants or termites are prevalent in your area, have soil treated with insecticides and allow sufficient time for them to dissipate before continuing with pool installation.
- 6. Do not set up your pool under trees or under overhead wires.
- 7. Do not set up your pool near any existing structure such as your house, garage, etc., as this condition may compel diving or jumping into your pool which could result in permanent injury or death. You must check with your local municipality for all appropriate ordinances and regulations.
- 8. Do not set up your pool on or near any septic system or underground utilities.



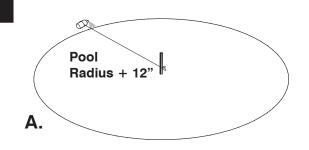
PREPARING THE POOL SITE

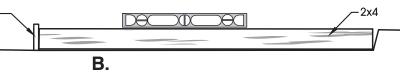
Once you have chosen an appropriate location for your pool based on the criteria specified above, determine the pool circumference by putting a stake in the ground at the center of the location desired and with a line equal in length to the radius of the pool (1/2 the pool size) plus 12", mark off the circumference with a sharp object, lawn edger, spray paint, etc. (fig.A)

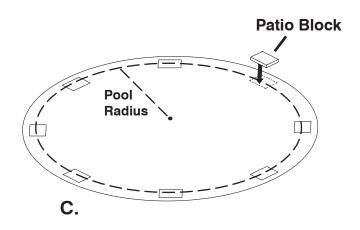
After all of the sod has been removed, you must make the pool area absolutely level as measured by a transit or level. — Find the lowest spot within the pool area and level the ground to that lowest spot. (fig.B) Do not add dirt to the low areas. It is the high areas that must be dug away. The perimeter of the pool must be a solid foundation to prevent the pool from settling into dirt that is loosened by rain and water splashing over the side.

Once again, clean the area of all sharp objects, including roots and rocks that could later effect your swimming pool.

For Site Preparation instructions for Inground installation, see page 15.





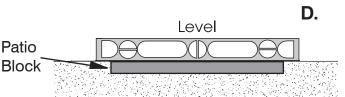


PATIO BLOCK INSTALLATION

Once the ground is prepared, begin installing 2"x8"x16" patio blocks. (fig.C) The patio blocks should be installed at the perimeter line of the pool (1/2 the pool size from the center stake) and at intervals corresponding to the number of panels associated with the size of the pool. Please see chart for appropriate spacing.

Sink each patio block into the prepared ground making sure that each block is level in all directions (side to side as well as front to back). Repeat this step around the perimeter of the pool area making the tops of all blocks level with the ground. Do not install the blocks on loose sifted soil or sand. All patio blocks must be flush with the ground, solid and level with each other in all directions. Once all of the patio blocks are installed, place an anchor plate on each patio block. (fig.D) The anchor plates will be used to provide a level platform for wall installation.

Pool Size	Patio Block Intervals	Qty Needed
16'	6' 1 1/2"	8
18'	6' 10 5/8"	8
21'	6' 5 7/8"	10
24'	7' 5"	10
27'	8' 4 1/8"	10
30'	7' 9 1/8"	12
33'	7' 4 1/8"	14



WALL INSTALLATION

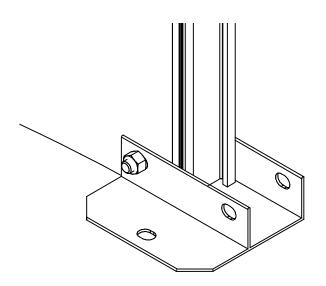
Locate the wall panel that is cut for the skimmer and return fitting. The location for the panel should be adjacent to the electrical supply and provide ease of access once the pool is installed.

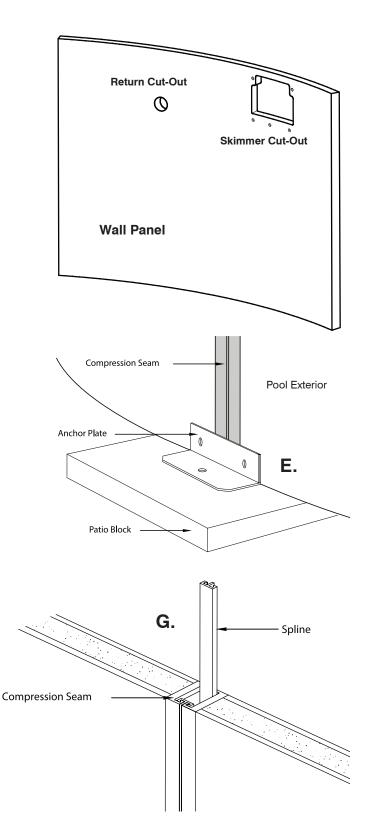
Place an anchor plate centered on a patio block. Place 2 wall panels so they meet on the center of the anchor plate. (fig.E) Please be aware that each compression seam should be flush before attempting to insert the splines. (fig.G) Splines are designed to slide freely into place when inserted properly into level panels. Gently shaking panels can help ease insertion of some splines.

NOTE: If wall panels are not level it will be hard to drop splines. Use cooking oil or food spray as lubricant on the first 4-6" of the splines. Do not use petroleum based lubricants (WD-40).

Hard downward pressure or hammering causes metal burrs and jams the spline into the compression seam. If a spline does not install easily, leave it and go to the next one or next panel. Aligning the next panel will most frequently align the previous one as well.

Duplicate this process with the remaining wall panels, stopping before installing the final wall panel. At this time you need to bring in the sand through this opening to prepare the bottom of the pool.





Drill 7/16" holes through the pool panels at the anchor plate predrilled holes. Secure with 2 ½" bolts and nuts. Make sure the panels are securely in the anchor plates and even at the top before drilling. This will create a bolted pool frame for bonding, if needed. Check with local codes for requirements.

IMPORTANT: Do not drill or install anchor plate bolts until entire wall is constructed.

SKIMMER ASSEMBLY

Place the U shaped foam insert into the panel cut out with open side up. **fig. H**

Install the rubber sandwich gasket on the gray mounting plate, making sure the gasket straddles both sides of the mounting plate. **fig. I**

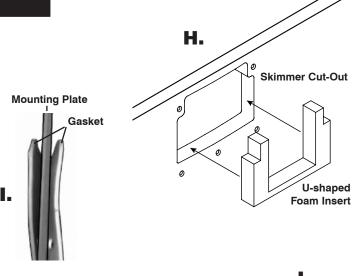
Place the gray mounting plate with gaskets on the pool interior side of the panel cut-out, with the white plate on the exterior of the panel. Secure the assembly with 21/4" countersink bolts and T-nuts loosely through 4 pre drilled corner holes in the gray mounting plate, the wall panel and the white mounting plate. **fig. J**

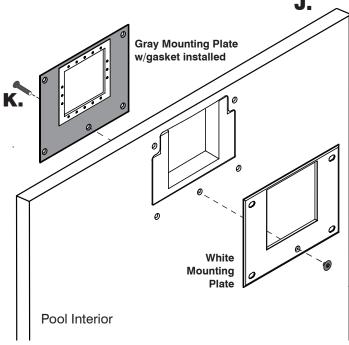
Use the fifth bolt and T-nut at the bottom center hole in the mounting assembly and tighten firmly. Do not over tighten. **fig. K**

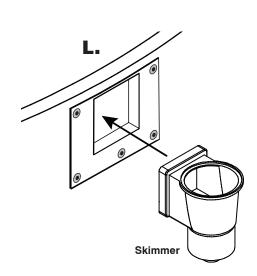
Slip skimmer body through the white plate to the gasket on the gray plate. **fig. L**Secure tightly with 2 pan head screws (different style screws in the skimmer hardware bag) from the water side through the gaskets and gray plate into the skimmer body center hole on each side. **fig. M**

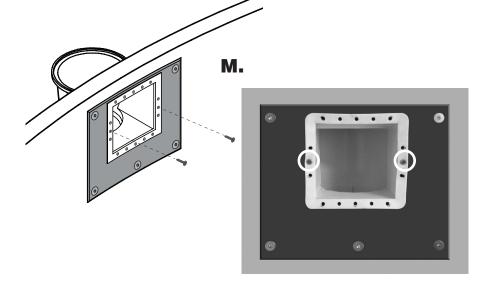
Tighten the 4 corner bolts, firm, do not over tighten. The skimmer faceplate is attached after the liner is installed.

For Skimmer Assembly instructions for Inground installation, see page 20.









RETURN FITTING ASSSEMBLY

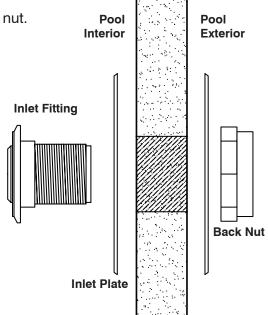
The return fitting kit includes 3 parts: inlet fitting, inlet plate and back nut.

Install the inlet fitting into the pre-cut hole, slide the inlet plate over the exposed threads and then thread the back nut onto the fitting. **DO NOT OVERTIGHTEN.**

For additional return fittings, drill 3" (with 3" hole saw) hole 12" down from top of panel. Edges will be sharp but not in contact with liner or hands once wall fitting has been installed. Install return wall fitting per directions, firmly. **Do not over tighten.**

Note: For the Radiant LED light, drill hole 14" down from top of panel. Installation is identical to return fitting.

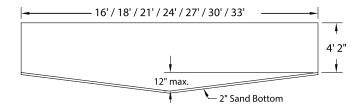
The return faceplates are attached after the liner is installed.



SAND REQUIREMENTS

Bring the required amount of clean and washed masonry sand into the interior of pool area. Refer to the chart for the required amount. Once the sand has been placed inside the pool, install the remaining wall panel.

Dished bottom option



Pool Size	Sand Amt (cubic yds)
16'	1.8
18'	2
21'	3
24'	3.5
27'	4.5
30'	5.5
33'	6.5

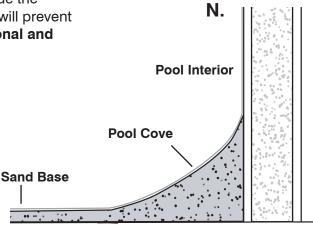
(1 yard masonry sand = appx 1.5 tons)

PREPARING POOL COVE

Using the masonry sand, build a pool cove 4" to 6" high inside the wall along the entire circumference of the pool.(fig. N) This will prevent the liner from creeping under the wall. This step is not optional and must be done.

Spread the remaining sand equally across the bottom of the pool. This will give you a 2" sand base. After the cove and base are in place, dampen, rake and tamp the entire pool area. Make sure that no sand is allowed to remain on the wall above the cove. This could cause pinholes in your liner.

Once bottom and pool cove are set, install final panel.



INSTALLING PLASTIC COPING

The plastic coping is installed by simply placing coping lengths over the pool wall and securing with screws on the exterior of the pool.

Place all coping lengths around pool, leaving a 1" gap between each length. The coping gap should be offset from a wall joint.

Once all of the coping has been placed, secure the coping to the pool wall with sheet metal screws provided. **THIS STEP CANNOT BE SKIPPED.**

Included are 5 sheet metal screws for each full size coping length. For Premium 4" coping, 2 additional screws per coping length are included to be placed on the inside of the coping and covered by duct tape. The screws, placed at the appropriate intervals, are essential to the secure installation and long term durability of the coping. The screw spacing should be as follows:

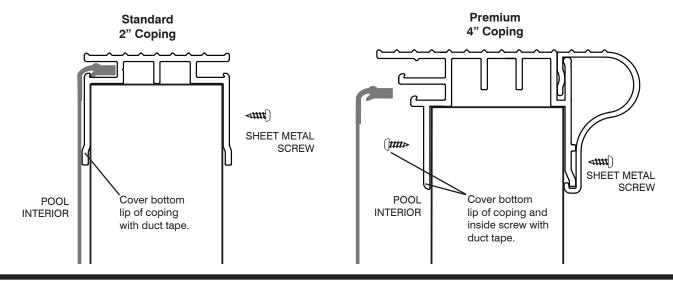
- One screw approximately 2-3" from each end.
- One screw in the middle of the coping length.
- One screw half way between center and each end screw.

Using a 1/8" drill bit, drill through the plastic coping and exterior pool wall while pressing down firmly on the coping on top of pool wall. Using a Phillips screwdriver, hand tighten each screw. **DO NOT OVER TIGHTEN.**

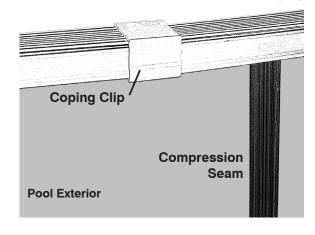
The beaded vinyl liner with the weight of the water will draw coping into place and level on the interior of the pool wall. After the liner is in place, install coping clips by snapping over gaps between coping lengths.

DO NOT SCREW IN COPING CLIPS.

For CP2 and Paver inground coping installation instructions see page 19.



Standard 2" Coping



Premium 4" Coping



INSTALLING LINER

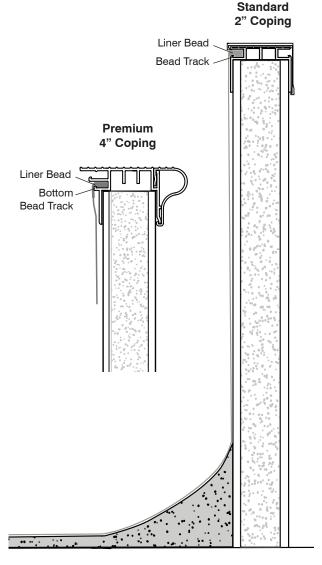
Prior to installing liner, tape all joints, including coping and compression seams, with Gorilla Tape[®]. Clear all sticks and sharp objects from an area near the pool that is as large as the pool itself. Remove the liner from its carton and unfold and open the liner. Refold the liner so that it can easily be carried to the pool and unfold from the outside of the pool. Check to make sure the sand in the pool is level and that there are no sharp objects in the pool.

Place the liner into the pool while holding onto the top of the wall section of the liner. Snap the bead of the liner into the bead receiver track around the entire pool.

(Be sure to insert liner bead in bottom track of Premium 4" coping as shown at right)

Gently pull on the liner and use a soft bristle broom to remove as many wrinkles as possible on the bottom of the pool. Start filling the pool slowly with water. Continue pulling gently and working the liner with a broom as needed. Some wrinkling of the liner may be evident and in no way affects the structural strength of your pool. You can continue to work out the wrinkles as needed by pulling gently on the liner or by using a broom.

TIP: To help in removing stubborn wrinkles, a shop vacuum may be used to suck the air out from behind the liner. Attach shop vac to skimmer outlet and seal with duct tape. Seal all other openings with duct tape as well. Turn on vac and run till wrinkles are removed. Once the wrinkles are gone, begin filling with water. After 6" of water is in the pool, turn off and remove the shop vac.



FILLING YOUR POOL

Whether you are filling the pool with your own home water source or through a water-fill service, please use the chart at right to determine the water volume requirements for your particular size pool.

Please see your pool professional for instructions on proper water testing and treatment.

Water Gallonage per Pool Size

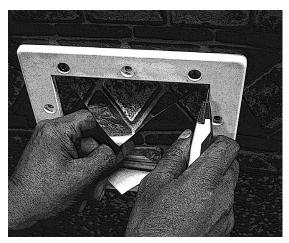
Pool Size	52" Pool Wall (46" of water)
16'	5,514
18'	6,963
21'	9,477
24'	12,378
27'	15,666
30'	19,388
33'	23,403

INSTALLING FACEPLATES

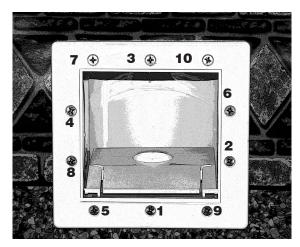
Once the water level reaches 2"-3" from the return and skimmer, install the faceplates. Carefully locate the screw holes for each opening. Once located, carefully puncture the liner with an icepick or nail. Attach skimmer faceplate with 1" screws and hand tighten evenly in order as shown in skimmer faceplate image below. When installing return faceplate, hand tighten each screw by a half turn, alternating between each, until all are tightened evenly. This ensures uniform compression of sealing gaskets. Using a razor knife, carefully trim the liner from inside of the openings for the skimmer and return. When done, install the eyeball into the return.



Locate screw holes.



Trim liner from skimmer opening.



Skimmer faceplate installed w/ screw tightening sequence



Trim liner from return opening.



Return faceplate installed.

NOTE: Follow Step manufacturer's instructions for installation of step faceplate and gasket after the liner is installed and water level reaches 6-8" depth.

COMPLETING INSTALLATION

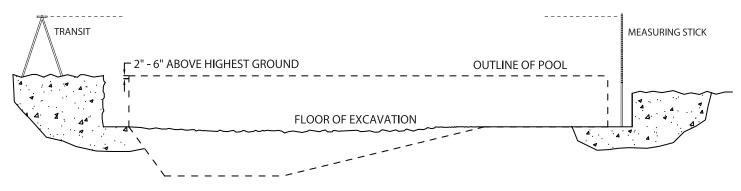
Please refer to the manufacturers' installation instructions for all other installation components. These include pump, filter, lights, and all other equipment and accessories.



Metric Inground Installation Instructions

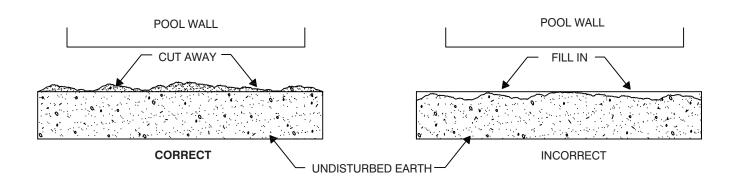
INGROUND: LEVELING THE EXCAVATION

With the shape of the pool excavation marked out, its height relative to the ground must be determined. The pool should be set at a height so that rain and splash will drain away, rather than towards the pool. It is best to use a building level, transit and a measuring stick to determine the required depth of excavation. It is best to set up the transit in a location so that you can leave it in the same place for the entire pool excavation. It is best to keep the top of the pool 2"-6" above the ground at the highest point so that you are able to place your deck on undisturbed soil.



SIDE VIEW OF EXCAVATION SITE

Since the excavation will be 2 feet wider than the actual pool dimension, it is important that the excavator does not dig the 2 ft ledge around the hopper too deep. (NOTE: A 2 ft excavation is recommended for the first time installations, after that, a 1 ft excavation is acceptable) A sturdier pool will result when the pool rests on undisturbed earth. It is better to have to remove an inch or two by hand than to have to build up after the excavator has gone too deep. Any voids beneath the wall panels caused by large rock removal, etc., must be filled and properly compacted.



PREPARING FOR WALK-IN STEP

If steps are going to be installed, excavate a 6 foot by 10 foot area where they are to be located on the pool. Please see the dig specifications for locations of steps.

IMPORTANT NOTE: If installing steps with your Metric inground installation, you must begin the process at the step site. Wall panels must first be mounted to the step and wall panel assembly continues from there.

Each pool will have 1 panel that is shorter in length, except the 16', 18' and 27' pools which will have 2 shorter panels to accommodate step.

Different adapter kits are being used for different radius pools. See chart at right to determine appropriate step type for your pool.

Prepare and Position Step

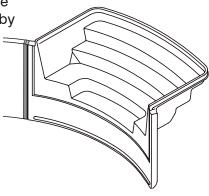
Install leg supports for the steps. For steps supplied by Radiant Pools, instructions will be provided. If steps are purchased separately through another provider, verify compatibility by talking with a Radiant Pools representative. Be sure to check step manufacturer's instructions as the step supports will vary by manufacturer.

Position the step in the desired location. Level step, establish benchmark. The benchmark (finished height of the pool) includes the wall height, the coping and the decking (concrete, pavers, etc). Adjust height of step by aligning top of coping with top of step and plumb by checking front face of step unit with adjoining panel. See images below to determine the proper benchmark for your installation.

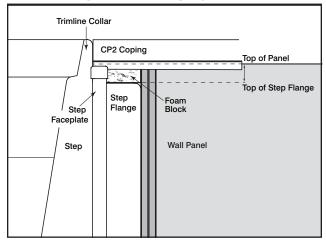
Once step is positioned, check levels from side to side and front to back.

Step Specifications for Metric Pools

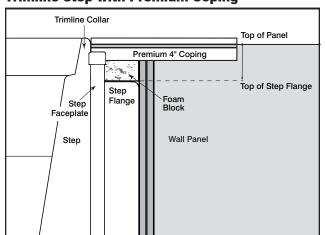
Pool Size	Step Type (48" Height)
16'	8' Radius
18'	8' Radius
21'	8' Straight
24'	8' Straight
27'	8' Straight
30'	8' Straight
33'	8' Straight



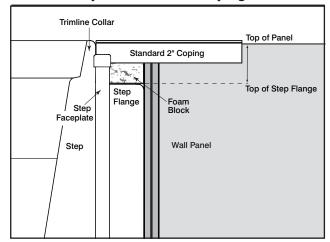
Trimline Step with CP2 Coping



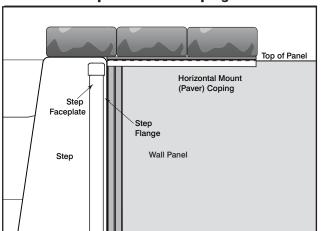
Trimline Step with Premium Coping



Trimline Step with Standard Coping



Cantilever Step with Paver Coping



Radius Step to Radius Wall Panel (for pool sizes 18' and smaller)

Installation Components (item # KS-52-RWSA):

- (2) Seam Connectors
- (2) 52" Standard splines for interior side of pool
- (2) each: 40 ½" Extended T splines and 10" Standard Splines for exterior side of pool
- 3/8" Carriage Bolts and Nuts; Backer Washers
- (2) A-Frames for connection to T Splines on either side of step

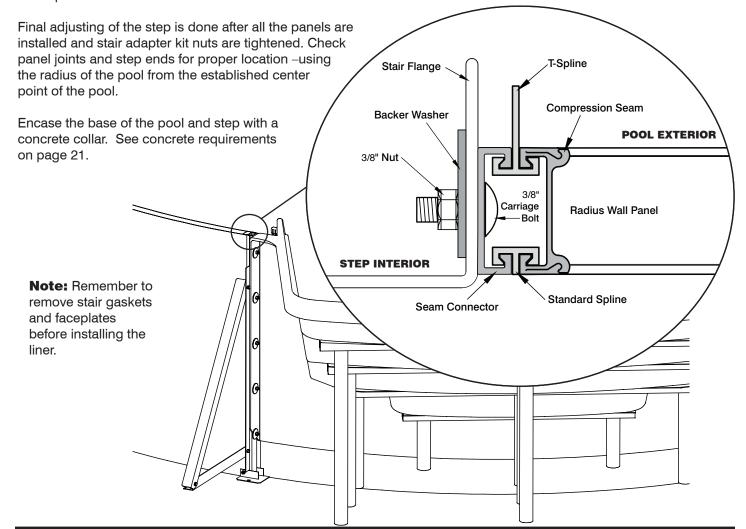
Assemble the stair adapter kit to the first pool panel with the standard 52" spline on the interior side of pool and the extended T-spline on the exterior of the panel. Position the panel butting up to the step flange and mark the location of the spline stair adapter with a marker or piece of tape.

Disassemble the adapter kit and clamp the seam connector to the step flange in line with the marked outline with vise grips or C-clamps. Using a 7/16" drill bit, drill through the step flange at the holes in the seam connector. Bolt the seam connector on to the step flange using the backer washer and nut on the inside of the step flange.

Important: Keep nuts very loose until all panels are installed.

T-spline assembly / Final adjusting

The extended T-spline is installed on the exterior side of the pool, with holes to attach the the A-frame components. The 10" standard spline is installed on top of the T-spline. The 52" standard spline is installed on the interior side of the pool.



Straight Step to Radius Wall Panel (for pool sizes 21' and larger)

Installation Components (item # 2890-52):

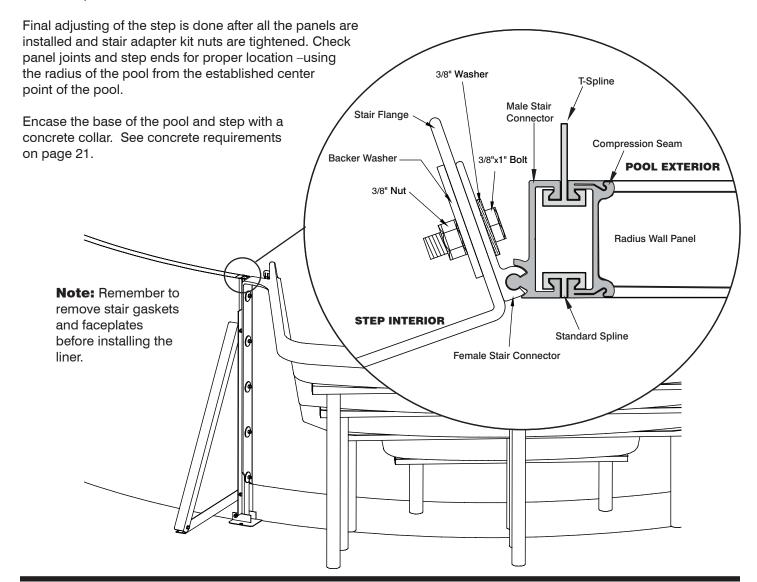
- (2) each Male/Female Stair Connector
- (2) 52" Standard splines for interior side of pool
- (2) each: 40 1/2" Extended T splines and 10" Standard Splines for exterior side of pool
- 3/8" HHCS Bolts and Nuts; 3/8" and Backer Washers
- (2) A-Frames for connection to T Splines on either side of step

Position the female stair connector on the step flange, making sure it is level and meets the top of the pool panel. Hold in place with vise grips or C-clamps. Using a 7/16" drill bit, drill through the step flange at the holes in the female stair connector. Bolt the adapter plate on to the step flange using the backer washer and nut on the inside of the step flange. Attach the male stair connector to the female stair connector at the ball joint.

Important: Keep nuts very loose until all panels are installed.

T-spline assembly / Final adjusting

The extended T-spline is installed on the exterior side of the pool, with holes to attach the the A-frame components. The 10" standard spline is installed on top of the T-spline. The 52" standard spline is installed on the interior side of the round pool.



Step to Radius Wall Panel

When installing a walk-in step with Standard 2" or Premium 4" plastic coping, the coping length at the step should be miter cut to follow the profile of the inside of the pool (as shown at right). Fill in gap between coping and top of step with expandable foam to prevent any debris from getting behind the liner.

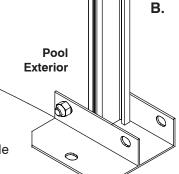


INGROUND: ANCHORS PLATES AND CP2/PAVER COPING INSTALL

Anchor Plates

Wall anchors are located at each compression seam. With a high speed metal drill bit, drill two 7/16" holes on each side of the compression seam in each wall anchor as shown. Insert a provided nut and 2 ½" bolt through each drilled hole as illustrated, with the nut on the outside of the pool (**fig.B**).

Duplicate this process with the remaining anchor plates.



Wall Clips and Coping

CP2 and Paver coping installation must start with Radiant Nassau wall clips. They provide a hard surface on the top of the wall to attach the coping to. CP2 coping is pre-bent to a particular radius, Paver coping is notched to accommodate standard radii.

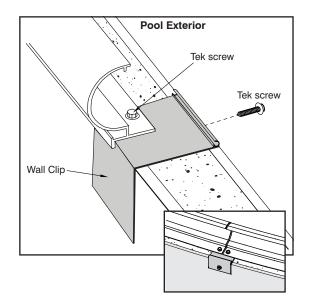
Place Nassau clips on the wall every 12" for paver coping and 18" for CP2 coping, with the clip ridge on the pool exterior side. Do not Tek screw to the wall yet as final placement will vary with coping length.

Place CP2 or Paver coping lengths on wall panel with a Nassau wall clip centered at the beginning and end of the length. Secure the wall clips to the panels and the coping to the wall clips with Tek screws on the exterior side of pool.

The next length is placed adjacent to the end of the first length, continuing around the pool. It is not necessary to leave spacing as with the white plastic coping. If you are installing a walk-in step, start at the step and continue around the pool, cutting the last length to fit.

Important: When all lengths are installed, apply a barrier between the bottom of the coping and the top of the pool wall to prevent sand and debris from getting in behind the liner. Silicone, foam sealant or duct tape can be used.

For CP2 coping, install coping clips to cover the ends of the lengths.





Transition with Mixed Coping

End caps are available for installation of CP2 and Metric plastic coping combination. The end cap provides a clean finish to the concrete and fits inside the CP2 coping before the lower profile of the Standard 2" or Premium 4" coping starts.



Place a gasket on both sides of the gray mounting plate. Be sure to align all holes.

(fig.C)

Position the gray mounting plate over the panel cutout on the interior side of the pool. Slide skimmer face through the panel cut out to the gray mounting plate. Attach the gray plate to the skimmer face with Pan Head screws at the top and bottom center holes (fig.D). Tighten screws firmly.

Slip the white U-shaped mounting plate up from under the skimmer throat on the exterior side of the pool so that the top holes of the plate match the top holes in the panel. Assemble the skimmer with the gray and white mounting plates by inserting 2 1/4" Countersunk bolts and T-nuts through pre-drilled holes in the gray mounting plate, the wall panel and the white mounting plate. Once all bolts are in place, screw in securely. Do not over tighten.

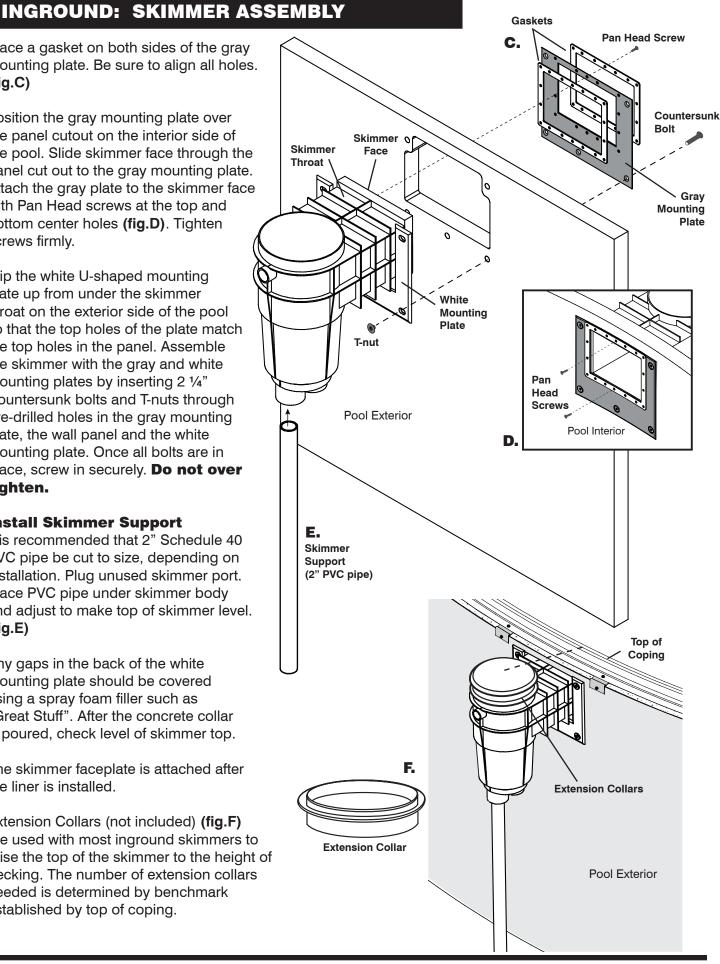
Install Skimmer Support

It is recommended that 2" Schedule 40 PVC pipe be cut to size, depending on installation. Plug unused skimmer port. Place PVC pipe under skimmer body and adjust to make top of skimmer level. (fig.E)

Any gaps in the back of the white mounting plate should be covered using a spray foam filler such as "Great Stuff". After the concrete collar is poured, check level of skimmer top.

The skimmer faceplate is attached after the liner is installed.

Extension Collars (not included) (fig.F) are used with most inground skimmers to raise the top of the skimmer to the height of decking. The number of extension collars needed is determined by benchmark established by top of coping.

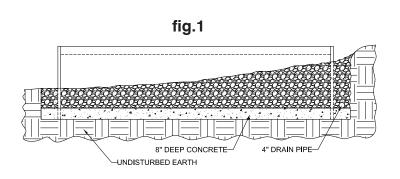


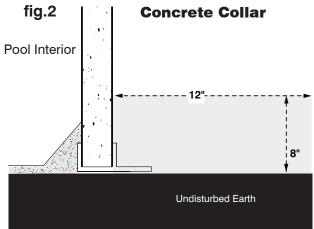
CONCRETE COLLAR GUIDE

Check with local building codes before installing your Radiant Metric pool inground. Radiant Pools requires a minimum of 8" concrete collar around the entire pool if any point of the pool wall is 26" or greater in the ground (fig. 2). An example of a semi-inground pool requiring a concrete collar is shown below (fig.1).

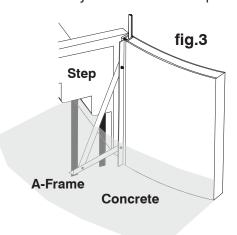
When installing an inground thermoplastic walk-in step, add 2.5 yards of concrete to the 'Concrete Requirements table' for the concrete around the step and A-frames (fig.3).

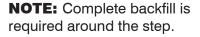
Do not pour concrete directly on the pool walls. Pour concrete away from the wall and let it flow to the wall.

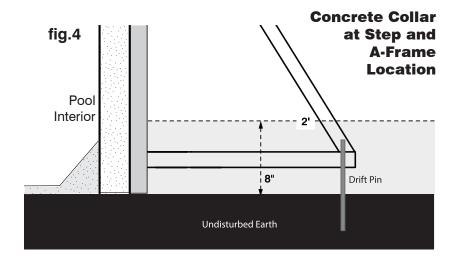




NOTE: Before pouring concrete collar, check with your electrician as he may want to bond the pool first.







Concrete Requirements Table:

The following table describes the amount of concrete required in yards for Round Metric Pools 26" or greater inground. Add an additional 2.5 yards if thermoplastic walk-in step is included.

Size	16'	18'	21'	24'	27'	30'	33'
26" or more Backfill (Concrete Collar)	2	3	4	5	5.5	6	6.5

BACKFILL AND DRAINAGE

Before backfilling, check with electrician for pool bonding. Sonotubes may be installed at the time of collar pour to support the deck.

Backfill may go directly against a Radiant pool wall. Structrual fill is required. Do not use expansive soil (e.g., clay).

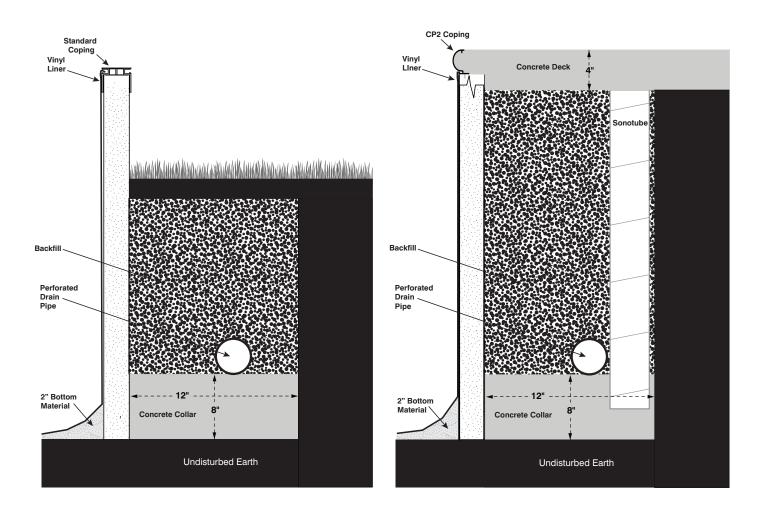
For semi-inground or fully inground installations, the uphill run-off should be redirected around the pool incorporating a French drain concept using a perforated drain pipe and water relief area away from the pool and other structures.

Backfill as the pool is filling with water, manually compacting every 8"-12" (Do not use compacting machinery.) Hand backfill around skimmers, lights and inlets. Be sure that piping is buried, but not crushed.

Although not recommended, if backfilling completely before pool is filled, the inside of the pool straight walls must be crossed braced at the top.

Semi-Inground

Full Inground



RADIANT POOLS METRIC SERIES RESIDENTIAL SWIMMING POOL NON-PRORATED LIFETIME LIMITED WARRANTY

This Warranty, offered by Trojan Leisure Products LLC, d/b/a Radiant Pools, herein called the "Manufacturer," is effective upon completion of payment by purchaser and registration of the warranty card provided with your product. Manufacturer warrants its manufactured swimming pool components only against manufacturing defects. These components include wall panels, panel connectors, top and bottom channels, all aluminum bracing components, splines, adapter kits, and aluminum nuts and bolts only. This Warranty does not extend to equipment and other accessories not manufactured by Trojan Leisure Products, LLC. Manufacturer provides no other Warranties than those set forth herein. This Warranty is subject to the following terms and conditions:

Shipping: Purchaser is responsible for all shipping charges incurred for any item returned for repair or replacement.

Costs: Purchaser is responsible for the cost of installation of any item repaired or replaced under this Warranty.

Notification and Delivery: Purchaser must notify Manufacturer of any defect and deliver such defective item to Manufacturer, shipping costs prepaid, to: 440 North Pearl Street, Albany, NY 12207. Manufacturer will repair or replace defective items, subject to the terms of this Warranty, within thirty (30) days of receipt, unless purchaser is otherwise notified. **Maintenance:** Failure to maintain your Radiant Pools vinyl liner

Maintenance: Failure to maintain your Radiant Pools vinyl liner swimming pool in accordance with Manufacturer's standards and specifications may void this Warranty.

Warning: For maximum use and enjoyment, your Radiant Pool must be kept filled with water at all times. Manufacturer shall not be responsible for any irregularities or imperfections that may result when water is removed, by evaporation, undiscovered liner leaks or otherwise, from your Radiant Pools vinyl liner swimming pool.

Winter Damage Provision for Metric Series Pools Only: The Manufacturer will replace or repair any of its manufactured swimming pool components, as set forth above, damaged due to the ill effects of ice or snow directly on pool only. Purchaser must notify Manufacturer of such damage and complete a winter damage claim form. Manufacturer will repair or replace the damaged manufactured swimming pool component within thirty (30) days of receipt and final processing of winter damage claim form. Any damage resulting from Ice Drop is excluded from this Warranty. Ice Drop occurs when water is lost during the winter, causing the water level to fall below the ice cap, which causes the ice cap to drop into the pool as it thaws, thereby damaging the pool

Owner's Signature

walls and/or compression seams.

Impact Damage: Damage resulting from impact of any objects such as tree limbs or vehicles is excluded from this Warranty.

Use of Thermoplastic Step Units: Thermoplastic steps are approved for use on Metric Series Pools only if the steps are installed fully in the ground. Use of Thermoplastic Steps on Metric Series Pools must be installed according to Manufacturer's instructions, which includes the use of the Manufacturer's stair mounting kit. Failure to strictly follow instructions will void all warranties.

Use of Radiant Inside Step Unit: Radiant Inside Steps are approved for use on Metric Series Pools installed above the ground and/or up to 18" in the ground. Radiant Inside Steps on Metric Series Pools must be installed according to Manufacturer's instructions. Failure to strictly follow instructions will void this Warranty.

Registration of Warranty: After reading your Warranty, please complete and return the enclosed registration card or submit your registration online at radiantpools.com/pool-owners/warranty-registration within sixty (60) days after delivery of your Radiant Pool, or within thirty (30) days after installation of your Radiant Pool if installation is completed within a period less than sixty (60) days after delivery. UNLESS OUR REGISTRATION RECEIVED AS DIRECTED, THIS WARRANTY IS NULL AND VOID.

Transfer of Warranty: The provisions of this Warranty are personal to the original purchaser of the Radiant Pool. This Warranty is 100% transferable from the original purchaser. The new owner must obtain a warranty transfer card from the original purchaser to be submitted to Manufacturer within sixty (60) days of purchase to maintain warranty.

Date

ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED TO THE DURATION AND SCOPE OF THIS WRITTEN WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. UNDER NO CIRCUMSTANCES SHALL TROJAN LEISURE PRODUCTS, LLC BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES FOR LOSS OF USE OF POOL, INJURY TO, OR DEATH OF, ANY PERSON, OR DAMAGE TO PROPERTY, AND ANY CLAIMS THEREFORE ARE HEREBY SPECIFICALLY DISCLAIMED AND EXCLUDED. SOME STATES DO NOT ALLOW THE EXCLUSION OF SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. THEREFORE, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

	Trojan Leisure Products, LLC. 440 North Pearl Street, Albany, NY 12207 518-434-4161 fax 518-432-6554
Owner Name	Serial No.
Address	City, State, Zip
Pool Size Installed By:	Purchased From ealer Private Installer Owner Date of Installation
	ASE READ AND SIGN: I have received and reviewed the Pool Owner's Operating and Safety ge which includes: Safety Guide, Consumer Care Manual, "No Diving" stickers/instructions, "No Diving Sign, .



div. Trojan Leisure Products, LLC 440 North Pearl Street Albany, NY 12207

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