

AQUASPORTS POOLS, LLC.

OWNER'S MANUAL

MILANO

ABOVE GROUND RESIDENTIAL TYPE O
NON-DIVING SWIMMING POOL
52" HIGH, CORRUGATED WALLS
ROUND AND OVAL STEEL POOLS,
INSTALLATION INSTRUCTIONS

MEMBER



THESE PRODUCTS ARE MANUFACTURED IN
ACCORDANCE WITH VOLUNTARY STANDARDS
ANSI/NSPI-4 DATED 1999 OR LATEST UPDATE

AQUASPORTS POOLS, LLC. IS IN NO WAY AFFILIATED WITH ANY PROFESSIONAL POOL INSTALLER. THEREFORE, AQUASPORTS POOLS LLC. CANNOT ASSUME ANY RESPONSIBILITY FOR ERRORS IN INSTALLATION BY THE HOMEOWNER OR SAID PROFESSIONAL INSTALLER. IF YOU HAVE THE POOL, DECKING AND FENCING INSTALLED BY OTHERS, PLEASE SUPERVISE TO BE SURE THEY COMPLY WITH PROPER INSTRUCTION TECHNIQUES AS SHOWN.

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SWIMMING POOL SAFETY

INTRODUCTION

Congratulations on bringing swimming enjoyment to your family. Swimming is great fun for youngsters and grownups alike. Having your own above ground pool is a satisfying delight, yet, there are a number of important above ground pool safety rules you must remember and enforce **AT ALL TIMES**. Failure to understand and enforce these safety reminders can result in **SERIOUS PERMANENT INJURIES**, including, paralysis from a broken neck and damage to the spinal cord or death from drowning or electrocution. You as the owner have the most important role in reminding users of this above ground pool how to use it safely.



DANGER SHALLOW WATER

NEVER DIVE, SLIDE or JUMP into this **ABOVE GROUND / ON GROUND POOL**. **ALWAYS** supervise all users, **ESPECIALLY CHILDREN** to prevent **INJURY** or **DROWNING**.

PROVIDE MEANS OF INGRESS AND EGRESS FROM POOL BY MEANS OF LADDERS/STAIRCASES/ STEPS ETC

PERMANENT INJURY, PARALYSIS or DEATH can **RESULT** if you **FAIL** to **OBEY** this **WARNING**. This **ABOVE GROUND / ON GROUND POOL** is designed for **SWIMMING AND WADING ONLY!** It is not **DEEP ENOUGH** for **SAFE DIVING, SLIDING or JUMPING**.

These Safety Reminders require pool users to **EXERCISE COMMON SENSE**. **ALWAYS** use **COMMON SENSE** in your use of this product in order to **AVOID RISKS ASSOCIATED** with electricity, and water to avoid serious injury resulting from **JUMPS, DIVES, SLIDES, SLIPS, FALLS** and **ELECTRIC SHOCK**.

SAVE THESE INSTRUCTIONS!

DANGER

FAILURE to HEED THESE WARNINGS can RESULT in PERMANENT INJURY, PARALYSIS, or DEATH

1. NEVER DIVE, SLIDE or JUMP into this **ABOVE GROUND / ON GROUND SWIMMING POOL**. It is too shallow for safe jumping and diving.

2. NEVER DIVE, SLIDE or JUMP from the **LADDER, DECK, TOP LEDGE** or **ANYTHING ELSE**.

3. Always supervise small children to minimize the risk of drowning. Never allow children or adults to climb on the outside structure of the pool. Do not put tables, chairs or other objects near the pool. Children may use these to enter the pool and be injured or drown.

4. Child Drowning Alert. US Consumer Product Safety Commission reports that drownings and near-drownings of children, young adults and adults account for a substantial percentage of the risk of using this pool product.

CHILDREN UNDER the AGE of 5 YEARS OLD are THE HIGH RISK. Please **WATCH** your **CHILDREN!**

5. FOR YOUR ADDED SAFETY we urge you to install around the pool an additional four (4) foot tall (above ground level) fence, wall or enclosure that is made of durable material. **ALL GATE AND ENTRIES** must be self-closing and self-latching and equipped with hardware for permanent locking. **ALL LATCHES MUST** be installed fifty-four (54) inches above the ground surface and made inaccessible to toddlers from outside. If a building is part of the barrier, all doors, windows and patio gates that could provide access to the pool **MUST** be **SELF-CLOSING, SELF-LATCHING**, with **PERMANENT LOCKS** so that **YOUR POOL CANNOT** be **ENTERED BY TODDLERS**. Check all local and state building codes to insure your installation complies with all requirements.

6. NEVER use your swimming pool **AFTER DARK** or when you cannot see all the parts of the pool. **ALWAYS** maintain clean water in the pool. It is important that users must be able to see the shallow depth of the pool at all times. If you ignore this warning, you have the sole responsibility of providing adequate lighting and instructions so that all users know and understand how to safely use this product. It is not safe to dive into shallow water because catastrophic personal injury or death could result. Because conditions and circumstances vary, you must consult with your electrical professional, such as a local electrical contractor or your power company, to provide adequate lighting for your intended use, and you must comply with all national and local electrical codes and safety requirements.

7. NEVER use your swimming pool if you have been drinking alcoholic beverages or taking medications or drugs. Shock, unconsciousness, serious personal injury or drowning could result.

8. NEVER attempt to contact or service electrical equipment, including your filter, when your body and/or the ground is wet. Electrocutation or permanent personal injury due to high voltage (120V AC) could result.

9. TO AVOID ELECTROCUTION HAZARD, never use an electrical power source for any electrical equipment or your filter unless it is protected by a **Class A (5 Milliampere Trip) Ground Fault Circuit Interrupter (GFCI)** in accordance with the **National Electrical Code 680, latest revision 2002**.

10. For safe pool use the water must be clean, so that the bottom is visible at all times. The user must be able to see that the water is too shallow for jumping, sliding or diving, **NO JUMPING---NO SLIDING--NO DIVING**. **FAILURE to HEED THESE WARNINGS can RESULT in PERMANENT INJURY, PARALYSIS, or DEATH.**

DANGER CONTINUED

11. MOST SERIOUS PERMANENT INJURIES, PARALYSIS or DEATHS OCCUR when **DIVES** are made from **POOL DECKS**.

12. BE SURE your pool and filter are installed as instructed in your **OWNER'S MANUAL**.

13. NEVER allow horseplay in or around the pool.

14. ALWAYS use Original Equipment Manufactured (OEM) parts for your replacement requirements.

15. Make sure the filter is an Underwriters listed product for your own protection against electrical hazards.

16. NEVER modify, remove or drill holes in the pool, deck, or ladder components unless instructed.

17. NEVER INSTALL A SLIDE OR DIVING BOARD ON YOUR ABOVE GROUND / ON GROUND SWIMMING POOL.

18. If you **COVER** your **POOL** with a **WINTER COVER**, **NEVER ALLOW ANYONE and ESPECIALLY SMALL CHILDREN to WALK or PLAY on the POOL COVER. SERIOUS INJURY AND DROWNING COULD RESULT!**

19. ALWAYS POST your **"DO NOT JUMP---DO NOT SLIDE---DO NOT DIVE"** signage in plain sight around or on your above ground / on ground swimming pool.

20. PERIODICALLY check your pool and components for damage and be sure all screws are in place. Always replace all damaged components and tighten all screws before you use the pool, deck or ladders.

21. DO NOT CUT HOLES in your **POOL WALL** to **INSTALL LIGHTS** or **ANYTHING ELSE UNLESS** the **HOLE LOCATIONS** are **FACTORY INSTALLED. FAILURE** to **OBEY** this **INSTRUCTION** could **CAUSE STRUCTURAL DAMAGE** to the **POOL WALL, VIOLENTLY RELEASING LARGE BODIES of WATER. WALL STRUCTURAL FAILURES** may **CAUSE SERIOUS INJURY, ELECTROCUTION, PROPERTY DAMAGE** and **VOID YOUR WARRANTY.**

22. IF YOUR "DO NOT JUMP---DO NOT SLIDE---DO NOT DIVE" SIGNAGE ARE MISSING, DAMAGED, OR NOT LEGIBLE, PLEASE WRITE OR CALL US FOR FREE REPLACEMENTS AT:

**AQUASPORTS POOLS LLC
PO BOX 7283
NORTH BRUNSWICK, NJ 08902
Phone: 732-247-6134**

23. Always have a light, strong, rigid pole (shepherds crook) not less than twelve feet (12') long available at pool side in case of emergencies.

24. ALWAYS post in a conspicuous place near your pool and telephone the following numbers:

**-Nearest Available Police, Fire or Rescue Unit
-Nearest Available Physician
-Nearest Available Ambulance Service
-Nearest Available Hospital**

ABOVE GROUND SWIMMING POOL INSTALLATION INSTRUCTIONS

INTRODUCTION

These instructions have been prepared by the manufacturer to assist you in the installation of your new swimming pool. Read these instructions thoroughly before you begin the pool installation. Open the cartons and familiarize yourself with each part from its description in the parts list. Then follow the installation procedure in the order given. Do not deviate from the instructions. Do not take short cuts. The warranty is not valid if the instructions are not followed.

IMPORTANT

If you are adding any additional added value components to your pool, such as fencing, patio decks, side decks, end decks, or complete walkarounds, it is important to review those instructions before installing the pool. Pay particular attention to the prior **attachment** of fence/deck support brackets to specific uprights and buttresses, before assembling these specific uprights and buttresses to the bearing plates.

SELECTION OF POOL SITE

Before proceeding with the installation, consider these items in choosing the location of you pool. Look over your property for the most ideal location. A large area is best. If you have no flat area large enough for the pool, then try to pick a spot where you would have the least amount of digging to do. Do not install your pool with any of the pool wall located in a major water drainage depression or sewer drain field.

A. The area should be large enough to allow space for lounging chairs, tables and accessories as well as the pool ladder and filter.

B. The pool filter is electrically operated, so provision must be made for an electric supply.

C. It is important that the ground surface be firm and solid. The area must be free of glass, stones, roots, and sharp objects. Any stones or roots flush or below the ground surface must be removed. The earth below the pool will compress under the weight of the water and will expose these items to the liner causing damage. Any grass under the pool will rot and give off an unpleasant odor.

D. Avoid installing your pool on ground that has been recently treated with oil base weed killers, chemicals, or heavily fertilized. Avoid areas growing nut grass or Bermuda grass. (These grasses can grow up through the pool liner.)

E. Do not install the pool on asphalt, gravel, peat moss, wood, tar paper, or over any area recently treated with chemicals.

F. The pool should never be placed directly under overhead power lines for precautionary measures. In some communities this is against the law.

G. Before you start digging into the ground to level the surfaces, it would be wise to check with your telephone, electric, and gas utilities for the location of any underground lines or pipes.

H. Trees and their occupants are not the best of friends with swimming pools. Falling leaves, branches and sap can be a constant problem in keeping the pool water clean. (along with bird droppings and insects falling into the pool). These materials will necessitate cleaning your filter unit more often. The further away from a tree the better for your pool.

IMPORTANT

Before beginning your pool installation, take a few minutes to consider the following points:

1. Check easement requirement.
2. Check wall clearances.
3. Check decking clearance.
4. Avoid overhanging eaves.
5. Avoid overhead power lines.
6. Avoid trees and leaves falling into the pool
7. Avoid roots, underground piping and cables.
8. No sudden slopes within 6 feet of pool.
9. Keep sprinklers away from pool walls.
10. Avoid sun reflection into residence.
11. Allow 6 inches of undisturbed soil around pool.
12. Be able to view children near pool.
13. Determine filter and pump location.
14. Locate convenient electrical outlets for filter and pump location.
15. Check prevailing winds.
16. Avoid windy days during installation.
17. Do not install liner on any abrasive area such as concrete, asphalt, peat moss, tar paper, gravel, wood, top of grass or recently chemically treated soil.
18. Do not install liner on nut grass or bermuda grass. See your dealer for special instructions.
19. Rid pool area of burrowing pest and insects such as gophers and termites.
20. Have 2 or 3 helpers when installing pool.

TOOLS

The following tools will be required for installation:

Regular Screw Driver	Measuring Tape
Phillips Screw Driver	Smooth File
Wrenches	Level
Peg or Stake	Hammer
Rake	Straight Plank
Shovel	Emery Cloth
Tamping Tool	Roller (if available)
Sharp knife/Razor Blade	
Silting screen (to remove 1/8" pebbles or larger)	

MATERIALS

The following materials will be required for installation:

12" X12" Patio Blocks, Cord
Duct or Masking Tape, Wood Stakes

ELECTRICAL REQUIREMENTS;

All Electrical Components installed in and /or adjacent to an aboveground/onground residential swimming pool shall comply with the requirements of **Article 680 of the latest revision of the National Electrical Code 2002(NEC*) and any state or local code to apply the NEC's interpretation of the electrical requirements .We refer you to ANSI/NSPI-4 Dated 1999 Section 13.1.2**

WHICH STATES AS FOLLOWS:

“**The National Electrical Code 2002** defines Permanently Installed Swimming, Wading and Therapeutic pools as Pools that are constructed in the ground or partially in the ground, and all others capable of holding water in a depth greater than forty-two inches (42”), and all pools installed inside a building, regardless of water depth, whether or not served by electrical circuits of any nature.

If you elect to have the pool partially installed in the ground, there are several areas of concern alerting you to potential significant problem areas that must be addressed.

A. The pool installed partially in the ground, appears to be an Inground Pool, and therefore creates an invitation for an individual or individuals, to dive into the pool, regardless of the safety labels affixed to the Top Rails, Wall and Liner. Fill the pool with water prior to backfilling.

B. Placing the pool structures partially in the ground accelerates corrosion of the metal parts. Preventative measures must be taken to retard this accelerated deterioration. Installer surface preparation and treatment must be administered to all structural parts, prior to being placed partially in the ground. This reduces the accelerated deterioration. It does not eliminate the problem.

FILTERS

Filtration is a mechanical means for removing small particles of dirt and sediment from the pool water. Your pool filter and other accessories are operated by electricity. You must have all outside electrical outlets installed by a qualified electrician in accordance with **National Electric Code 680**. Filter, hand skimmers, and vacuum cleaners are available at your pool dealer.

WATER CHEMICALS

All pools, whether filtered or not, **require purifying or sanitizing of the water**. The most common pool chemical used for this purpose is chlorine. It is available in various containers as a powder (granular), tablets and liquid. Follow the directions on the container. Always dissolve the tablets or powder before putting it into the pool. Proper **daily** chlorination of pool water, even when the pool is not used, will insure a sparkling, algae free, healthy pool. Familiarize yourself with common vocabulary terms in **Advisory X**.

DISASSEMBLE AND STORAGE

Do not remove the water from your pool. It has been designed to remain installed and filled with water all year round. We recommend the use of a pool cover to protect it and keep it clean when not in use. If you decide to disassemble the pool, drain and reverse the installation procedure.

Clean and dry the pool liner before packing

Put all hardware in a container

Recoil and tie the pool wall

Clean and dry all frame parts

ROUND POOL ASSEMBLY

POOL LOCATION

A. Locate the center of the pool. Drive the peg into the ground. Cut pieces of string or cord equal to the radius (1/2 diameter) of your pool. Mark off the circle (**Fig. 1**). Remove all the grass and sod inside the marked off area and level ground (**Fig. 2A**). Use a strong plank to level (**Fig. 2B**). Remove all sharp stones and twigs. The entire pool area must be absolutely level.

CAUTION

We cannot over emphasize this phase of your pool installation. While some tolerance in slope is allowed, (not more than 2" from end to end or side to side) the ideal condition would be exact levelness and you should use extreme care to achieve that result. High and low spots may not affect the overall shape of the site, but they should be eliminated especially where the pool wall will stand. Irregularities could make walking in the pool difficult.

CURVED WALL RAILS

B. Lay out lowered Curved Wall Rails, **No. 13**, and Round Bottom Joiner, **No. 20B** (**Fig. 3**), around circle. **PLACE PATIO BLOCKS UNDER EACH ROUND BOTTOM JOINER. THIS WILL PREVENT SINKING OR SETTLING OF THE UPRIGHT.** Slide Curved Wall Rails, **No. 13**, into Round Bottom Joiners, **No. 20B**, (**Fig. 3**).

UPRIGHTS - STEEL

C. Attach Steel Upright, **No. 2** to round bottom joiner, **No. 20B** (**Fig. 4**) and fasten securely with four (4) 10x5/8" washer head screws **No. 25B**. Repeat this process for all installed Uprights, **No. 2**. **Be sure the holes for fence bracket attachment are not at the bottom of the pool upright.**

UPRIGHTS - RESIN

Attach Resin Upright, **No. 2** to round bottom joiner, **No. 20B** (**Fig. 4**) and fasten securely with two (2) 10x5/8" washer head screws **No. 25B**. on each side of the upright and one (1) 10X3/4 screw **No. 57** in the center of the upright. Repeat this process for all installed Uprights, **No. 2**. **Be sure the holes for fence bracket attachment are not at the bottom of the pool upright.**

WALL CARTON

D. Place the Wall Carton and Pool Liner carton inside pool area (Fig. 2C)

WALL SKIMMER

E. If you are installing a through the wall skimmer on your pool, you must decide where you will locate your filter system since it is connected to the skimmer. The skimmer should be placed in the direction of the prevailing wind so that it can effectively remove wind blown leaves and dust from the water surface.

WALL -- GET HELP

F. The Wall is heavy, get help. Carefully and slowly unspool the Pool Wall. Start inserting the Pool Wall into the Curved Wall Rail, **No. 13** (Fig. 6). Continue inserting the Pool Wall into the curved rail all the way around the pool. If the end wall holes do not match, adjust the Curved Wall Rails and Joiners until the proper fit is attained. Close the Wall by inserting **1/4-20x5/8"** screws and nuts, **No. 24A & 24B** with the screw head toward the inside of the pool and the nuts on the outside of the Wall. (Fig. 6 & 7) Remove any burrs raised on the screw heads and cover the screw heads and sharp edges with masking tape or duct tape.

WALL CONNECTION

G. It is absolutely necessary and essential that Wall, **No. 1**, overlaps as shown in Fig 6 & 7. Due to the tremendous water pressure exerted on the pool wall, it is important that all (32) nuts must be securely tightened on all bolts. Do **not** leave any open holes.

IMPORTANT

When connecting the pool side wall, make sure that one Metal bar faces **inside** toward the Liner and the other Metal Bar faces **outside** the Pool Wall (Fig. 6 & 7). See **corresponding instructional affixed wall label**.

VINYL LINER INTRODUCTION General Procedures, Cautions, and Maintenance Information

PRIOR TO LINER INSTALLATION IT IS RECOMMENDED THAT YOU READ THE GENERAL PROCEDURES AND INFORMATION

1. The function of the pool liner is to act as a water envelope keeping the water in the pool. It is not a structural component, nor is it designed to support the weight of the water. The water pressure is held by the pool structure, not the liner. The liner must be installed properly with all liner surfaces touching the ground, cove, and pool wall and the liner not supporting the weight of the water.
2. The pool liner must be installed on smooth, level ground.
3. A **COVE**, approximately 6" high and forming a diagonal against the inner pool wall must be constructed, using suitable sifted earth or dead sand (**do not use peat moss**) around the entire inner circumference of the pool where the pool comes in contact with the ground. This **COVE** is necessary to provide support at the critical point where the side wall of the liner is joined to the liner bottom. It is essential that the seam joining the liner's side wall and bottom rest on this cove. If it does not, the seam will tear from the weight of the water.
4. Pool sizes vary slightly and above ground liners are generally cut slightly oversize to avoid damage by shrinkage. The appearance of slight wrinkles during installation is not uncommon. **DO NOT** attempt to eliminate these wrinkles by pulling the excess material over the side of the pool, since this may cause damage to the liner. **DO NOT** pull or drag your liner.
5. Your pool and liner should be full of water at all times. Emptying the pool may result in structural damage to the pool as well as shrinkage of the liner.

POOL LINER WORKMANSHIP INSTALLATION INSTRUCTIONS

1. Be sure the ground is level and properly prepared.
2. Build the cove around the entire inner circumference of the pool wall.
3. Place the liner in the center of the pool and unfold. Be sure that the liner is centered inside the pool.

COVE

H. Do not use any material that will compress under pressure. The cove is an important part of the pool installation. Using neutral alkalinity sifted earth, or fine sand without pebbles, build a 2" base over the entire pool area to protect the liner. **DO NOT USE ANY SUBSTANCE WITH HIGH ALKALINE OR ACID CONTENT, ESPECIALLY PEAT MOSS, AS IT WILL CORRODE METAL PARTS!** Next, using the sifted earth or fine sand, build a pool cove 6" high inside the metal wall along the entire circumference. This will prevent the liner from creeping under the wall, and it will also protect the liner from any metal edges of the pool framework. **THIS STEP IS NOT OPTIONAL- IT MUST BE DONE!** Since earth containing chemicals can cause discoloration or corrosion, it is suggested that you place polyethylene plastic sheeting under the cove around the perimeter of the wall, so no earth comes in contact with the metal. Since the presence of such chemicals is beyond the control of the manufacturer, such damage is not covered by the warranty. After the cove and the base are in place, 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. **(Fig. 8 & 9).**

CAUTION--LINER INSTALLATION

There are two (2) types of liners used for above ground/onground pools: The First Type is called an **Overlap Liner**. This Liner is draped over the Pool Wall and held in place with the use of plastic coaming.

The Second Type is called a **Beaded or Hung Liner**. This Liner requires a Beaded Liner Track, which is placed onto the corrugated pool wall and the beaded portion of the liner is placed or snapped into the retainer portion of the beaded liner track.

Before installing the Liner, **remove any burrs** on the screw heads, or sharp edges and be sure to Tape and Cover all Exposed Metal Edges, Sharp Corners, and knockout plugs in the Skimmer, Wall Panel, Return Outlet. Place tape over the joints on the beaded receiver with masking tape or duct tape on the inside of the pool as well as the Metal Bar where the Wall is connected to protect the Liner from damage. **(Fig. 6 & 7)**. Failure to tape these areas may result in sharp edges, eventually cutting through the Liner, causing the Liner to tear. It will also help to prevent pool waters from getting between the Liner and the pool wall.

4. FOR OVERLAP LINERS:

Drape the Liner Side Wall over the top of the pool wall **REMEMBER!** The seam joining the Liner Side Wall to the bottom must rest on the Cove! There should be approximately 4"-6" overhang of the Liner over the pool wall.

5. FOR BEADED LINERS:

Drape the Liner inside the pool wall. Snap the bead of the Liner into the beaded liner receptor at the top of the pool wall.

6. Smooth out wrinkles by pushing them toward the pool wall with a soft broom. **DO NOT** eliminate wrinkles by pulling excess liner material over the side of the wall or poking at the wrinkles with a stick or other object. This will damage the Liner.

LINER---GET HELP

I. Open the carton, **No. 10**, carefully. Do **not** use a **knife or other sharp object**. Your **Vinyl Pool Liner** has been carefully inspected at the factory, but you should check the surface and the seams of the Liner for defects, holes, cuts, tears, etc. before walking or standing on the Pool Liner. Do **not** try to

install the Pool Liner by yourself, as you might accidentally tear or puncture the liner. It is **heavy** and to install it correctly you will need help. Ask a few of your friends to help. Spread the Liner on the bottom of the pool and center the bottom seam on the cove. **Fig. 8 & 10.**

OVERLAP LINERS

Lift the sides of the Liner and carefully drape over the top edge of the pool side wall around the entire pool. The **Overlap Liner** should overlap the Pool Wall approximately **6"** from the top, **Fig. 11.** Secure the Liner, **No. 10,** to top of the pool side wall, **No. 1,** with strips of Plastic Coping, **No. 9,** placed end to end. Continue around the pool. Before going on to the next step, check to be sure that the bottom seam is positioned on the cove. If not, remove the Plastic Coping, **No 9** and adjust the Liner, **No 10** **Fig 8 & 11**

INSTALL BEADED RECEPTOR TRACK FOR BEADED LINERS

The **Beaded Liner** should be **FITTED** or **SNAPPED** into the Beaded Liner Track, **No. 13F,** continuing around the entire track sections. Next, SNAP or SLIDE a **6 "** **piece of wall rail, No. 13R** over the joints of the Beaded Liner Receptor, **No. 13F.** Check to be sure that the Bottom Seam of the LINER **No. 10,** is positioned on the curve of the sand cove. See **Fig. 9.**

INSTALL TOP CURVED WALL RAILS FOR OVERLAP LINERS ONLY

J. Around the entire top of the pool wall, install the Curved Wall Rails, **No. 13,** over the Plastic Coping. See **Fig. 6** These Curved Wall Rails, **No. 13** on the top, will be above and in-line to the previously installed curved wall rails, **No. 13** at the bottom. **Fig. 3 & 4**

INSERT TOP JOINERS

K. See **Fig. 9.** After installing either Curved Wall Rails, **No. 13** over the Plastic Coping or Beaded Track, **No. 9** insert the Round Top Joiners, **No. 20A,** over the Curved Wall Rails or Beaded Track, on the top which will be above and in-line to the previously installed

Curved Wall Rails, **No. 13** at the bottom. **Fig. 3 & 4.**

TOP RAILS

L. Place the beveled Top Rails, **No. 3** on top of the Round Top Joiners, **No. 20A.** Fasten together with four (4) 10x5/8" screws, **No. 25B.** See **Fig. 12.** Cover all exposed sharp cut mitres with masking or duct tape.

TOP CAP SETS

M. Place the Inside Cap, **No. 12A** and the Outside Cap, **No. 12B,** over and covering all the exposed seams where the Top Rails, **No. 3** meet at the Round Top Joiners, **No. 20A.** Secure the Caps, **No. 12A & 12B,** to each Top Joiner, **No. 20** with one 14x1" SS Screw, **No. 26** for **STEEL toprails and for RESIN toprails use 14x1-1/2 SS Screw No 26A, Fig. 13.** For the **Milano,** attach the Outside Cap, **No. 12B,** to the Upright by drilling a 1/8" hole in the Upright and secure with one 14x1" SS Screw, **No. 26.** See **Fig 14**

OVAL POOL ASSEMBLY

POOL LOCATION

Locate the center of the pool. Drive the peg into the ground. Cut pieces of string or cord equal to the length of the straight side of your pool. Cut pieces of string or cord equal to the radius (1/2 diameter) of your pool. Mark off the circle (**TABLE 1, Fig. 15**). Remove all the grass and sod inside the marked off area and level ground (**Fig. 2A**). Use a strong plank to level (**Fig. 2B**). Remove all sharp stones and twigs. The entire pool area must be absolutely level.

CAUTION

We cannot over emphasize this phase of your pool installation. While some tolerance in slope is allowed, (not more than 2" from end to end or side to side) the ideal condition would be exact levelness and you should use extreme care to achieve that result. High and low spots may not affect the overall shape of the site, but they should be eliminated especially where the pool wall will stand. Irregularities could make walking in the pool difficult.

BOTTOM STRAP ASSEMBLY

A. Lay out Bottom Strap, No. 17 as shown. (**Fig 19, 19A, 19B, 19C, 19D & 19E**)

1. Attach Universal Aluminum Joiner, No. 21 and Bottom Square Channel to Bottom Strap at indicated positions using 4 (four) 1/4-20x5/8 screws and nuts, No 24. (**Fig. 21**)

ATTACH STRAP ANGLE

2. Attach Strap Angle, No. 22 to Bottom Strap, No. 17, using four (4) 1/4-20x5/8" screws and washer nuts, No. 24 (**Fig. 22 & 23**). Connect **each** set of Bottom Straps, No. 17 by overlapping each strap to corresponding holes. Secure with 1/4-20x5/8" screws and washer nuts, No. 24. Make sure that all Washer Nuts are on the Bottom Side of the strap. (**Fig.19E & 21**)

Place your Bottom Straps parallel to each other and 36" apart on 2x8 planks (Fig. 17, 19D, & 25). PLACE PATIO BLOCKS UNDER EACH UNIVERSAL BOTTOM JOINER. THIS WILL PREVENT SINKING OR SETTLING OF THE BUTTRESS UPRIGHT ASSEMBLY. Take Straight Wall Rails, No. 4 and sleeve them through the Universal Joiners, No. 21. (**Fig 24 & 25**)

BUTTRESS/BRACE ASSEMBLY

B. Buttress Assembly (**Fig 21, 22, 24 & 25**)

1. Buttress Assembly is pre-assembled attaching a Buttress Bracket, No. 14, with sharp corners facing down using two (2) 3/8-16x1" screws and nuts, No. 23. Selecting the end of the Buttress Brace, No. 16, that has side holes, **Fig. 26**, slide the Buttress Support, No. 16, over the Buttress Support Bracket, No. 14. Insert two (2) 1/4-20x5/8" screws, No. 24A & 24B on the **inside** of the Buttress Support, No. 16. **Fig. 26**.

2. Take the Buttress Assembly, **Fig. 26**, and slide into Buttress Support Angle, No. 22. Attach the Buttress Support, No. 16, to the Strap angle, No. 22, using two (2) 10x5/8" screws. (**Fig. 27**)

3. Attach the Buttress Upright, No. 19, by sliding it over the Bottom Square Channel, No. 15 so that the Channel is **inside** the Buttress Upright, No. 19, **Fig. 28**. Secure with four (4) 1/4-20x5/8" screws and washer

nuts, No. 24 and two (2) 10x5/8" self tapping screws, No. 25B, **Fig 28 & 29**.

BOTTOM CURVED RAILS

C. For the round end of the pool, take the Curved Wall Rail, No. 13 and insert it half way into the Universal Joiner, No. 21, **Fig. 3**. Next, take a Bottom Round Joiner, No. 20B and slide it half way over the other end of the just installed Curved Wall Rail, No. 13. **PLACE PATIO BLOCKS UNDER EACH ROUND BOTTOM JOINER. THIS WILL PREVENT SINKING OR SETTLING OF THE UPRIGHT.** Continue connecting the Curved Wall Rails, No. 13 with Round Bottom Joiners, No. 20 until you reach the Bottom Strap, No. 17 and connect into the Universal Aluminum Joiner, No. 21 on the opposite side. Repeat this procedure for the other round end. After all Curved Wall Rails, No. 13 are in place, check to be certain that end circles are round and centered on the center line of the pool. This is important. If the round ends are off center, you may experience difficulty installing the pool Top Rails. **Fig. 30**.

SIFTED EARTH

D. Cover all Bottom Strap Assemblies, **Fig. 19E** with a minimum 1" of sifted earth or dead sand. Do **not** use peat moss.

UPRIGHTS

E. For the round ends of the pool, install Upright, No. 2, by attaching them to the Round Bottom Joiners, No. 20, with four (4) 10x5/8" self tapping screws, No. 25B. **Fig. 4** **Be sure the holes for fence bracket attachment are not at the bottom of the pool upright.** Place Wall Carton and Pool Liner Carton inside pool area.

UPRIGHTS - RESIN

Attach Resin Upright, No. 2 to round bottom joiner, No. 20B (**Fig. 4**) and fasten securely with two (2) 10x5/8" washer head screws No. 25B. on each side of the upright and one (1) 10X3/4 screw No. 57 in the center of the upright. Repeat this process for all installed Uprights, No. 2.). **Be sure the holes for fence bracket attachment are not at the bottom of the pool upright.**

WALL SKIMMER

F. If you are installing a through the Wall Skimmer on your pool, you must decide where you will locate your filter system since it is connected to the Skimmer. The skimmer should be placed in the direction of the prevailing wind so that it can effectively remove wind blown leaves and dust from the water surface.

WALL -- GET HELP

G. The wall is **heavy**, get help. Carefully and slowly unspool the Pool Wall. Start inserting the Pool Wall into the Curved Wall Rail, **No. 13** (**Fig. 6**). Continue inserting the Pool Wall into the Curved Wall all the way around the pool. If the end wall holes do not match, adjust the Curved Wall Rails and Joiners until the proper fit is attained. Close the Wall by inserting (32) 1/4-20x5/8" screws and nuts, **No. 24** with the screw head toward the **inside** of the pool and the nuts on the **outside** of the wall. (**Fig. 6, 7, 30, 31.**) Remove any burrs raised on the screw heads and cover all the screw heads and sharp edges with masking tape or duct tape. Also cover all open and raw edges in the wall openings. Pay particular attention to the opening of the thru the wall skimmer, and the return outlet.

WALL CONNECTION

H. It is absolutely necessary and essential that Wall, **No. 1**, overlaps as shown in **Fig 6, 7, 30 & 31**. Due to the tremendous water pressure exerted on the pool wall, it is important that all (32) nuts must be securely tightened on all bolts. Do **not** leave any open holes. See **corresponding affixed instructional wall label**.

IMPORTANT

When connecting the Pool Side Wall, make sure that one Metal Bar faces **inside** toward the liner and the other Metal Bar faces **outside** the Pool Wall (**Fig. 7 & 31**). See **affixed** wall label for additional instructions.

WALL & HOLD DOWN SHEETS

I. Starting at the edge of the Bottom strapping, **No. 17** on the straight side of the pool, insert Wall Sheet, **No. 7** lengthwise into the Straight Bottom Wall Rail, **No. 4**. Make sure that the Wall Sheet, **No. 7** is inserted in the Bottom of Wall Rail, **No. 4** (**Fig. 32 & 33**). Repeat inserting and overlapping the Wall Sheets, **No. 7** for the length of the straight side of the pool, ending at the far edge of the Bottom Strapping, **No. 17**. Use wide duct tape, to **cover all top and side raw edges** of Wall Sheet, **No. 7**, **Fig 33**. Next, insert the Hold Down Sheets, **No. 8**, into the bottom of the Straight Wall Rails, **No. 4** using the same method as you did with the Wall Sheets, **No 7**. **Fig. 32 & 33**.

<p>VINYL LINER INTRODUCTION General Procedures, Cautions, and Maintenance Information</p>
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PRIOR TO LINER INSTALLATION IT IS RECOMMENDED THAT YOU READ THE GENERAL PROCEDURES AND INFORMATION

1. The function of the pool liner is to act as a water envelope keeping the water in the pool. It is not a structural component, nor is it designed to support the weight of the water. The water pressure is held by the pool structure, not the liner. The liner must be installed properly with all liner surfaces touching the ground, cove, and pool wall and the liner not supporting the weight of the water.
2. The pool liner must be installed on smooth, level ground.
3. A cove, approximately 6" high and forming a diagonal against the inner pool wall must be constructed, using suitable sifted earth or dead sand (do not use peat moss) around the entire inner circumference of the pool where the pool comes in contact with the ground. This cove is necessary to provide support at the critical point where the side wall of the liner is joined to the liner bottom. It is essential that the seam joining the liner's

side wall and bottom rest on this cove. If it does not, the seam will tear from the weight of the water.

4. Pool sizes vary slightly and above ground liners are generally cut slightly oversize to avoid damage by shrinkage. The appearance of slight wrinkles during installation is not uncommon. DO NOT attempt to eliminate these wrinkles by pulling the excess material over the side of the pool, since this may cause damage to the liner. DO NOT pull or drag your liner.

5. Your pool and liner should be full of water at all times. Emptying the pool may result in structural damage to the pool as well as shrinkage of the liner.

<p style="text-align: center;">POOL LINER WORKMANSHIP INSTALLATION INSTRUCTIONS</p>
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1. Be sure the ground is level and properly prepared.

2. Build the cove around the entire inner circumference of the pool wall.

3. Place the liner in the center of the pool and unfold. Be sure that the liner is centered inside the pool.

4. FOR OVERLAP LINERS:

Drape the liner side wall over the top of the pool. REMEMBER! The seam joining the liner side wall to the bottom must rest on the cove! There should be approximately 4"-6" overhang of the liner over the pool wall.

5. FOR BEADED LINERS:

Drape the liner inside the pool wall. Snap the bead of the liner into the beaded liner receptor at the top of the pool wall.

6. Smooth out wrinkles by pushing them toward the pool wall with a soft broom. DO NOT eliminate wrinkles by pulling excess liner material over the side of the wall or poking at the wrinkles with a stick or other object. This will damage the liner.

COVE

J Do not use any material that will compress under pressure. The cove is an important part of the pool installation. Using neutral alkalinity sifted earth, or fine sand without pebbles, build a 2" base over the entire pool area to protect the liner. DO NOT USE ANY SUBSTANCE WITH HIGH ALKALINE OR ACID CONTENT, ESPECIALLY PEAT MOSS, AS IT WILL CORRODE METAL PARTS! Next, using the sifted earth or fine sand, build a pool cove 6" high inside the metal wall along the entire circumference. This will prevent the liner from creeping under the wall, and it will also protect the liner from any metal edges of the pool framework. THIS STEP IS NOT OPTIONAL- IT MUST BE DONE! Since earth containing chemicals can cause discoloration or corrosion, it is suggested that you place polyethylene plastic sheeting under the cove around the perimeter of the wall, so no earth comes in contact with the metal. Since the presence of such chemicals is beyond the control of the manufacturer, such damage is not covered by the warranty. After the cove and the base are in place, 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. (**Fig. 8 & 9**).

CAUTION--LINER INSTALLATION

There are two (2) types of liners used for above ground/onground pools: The First Type is called an **Overlap Liner**. This Liner is draped over the Pool Wall and held in place with the use of plastic coaming.

The Second Type is called a **Beaded or Hung Liner**. This Liner requires a Beaded Liner Track, which is placed onto the corrugated pool wall and the beaded portion of the liner is placed or snapped into the retainer portion of the beaded liner track.

Before installing the Liner, remove any burrs on the screw heads, or other sharp edges and cover them with masking tape or duct tape on the inside of the pool as well as the Metal Bar where the Wall is connected (**Fig 6 & 7**)

LINER---GET HELP

K. Open the carton, **No. 10**, carefully. Do **not use a knife or other sharp object**. Your **Vinyl Pool Liner** has been carefully inspected at the factory, but you should check the surface and the seams of the Liner for defects, holes, cuts, tears, etc. before walking or standing on the Pool Liner. Do **not** try to install the Pool Liner by yourself, as you might accidentally tear or puncture the liner. It is **heavy** and to install it correctly you will need help. Ask a few of your friends to help. Spread the Liner on the bottom of the pool and center the bottom seam on the cove. **Fig. 8 & 10**.

OVERLAP LINERS

Lift the sides of the Liner and carefully drape over the top edge of the pool side wall around the entire pool. The **Overlap Liner** should overlap the Pool Wall approximately **6"** from the top, **Fig. 11**. Secure the Liner, **No. 10**, to top of the pool side wall, **No. 1**, with strips of Plastic Coping, **No. 9**, placed end to end. Continue around the pool. Before going on to the next step, check to be sure that the bottom seam is positioned on the cove. If not, remove the Plastic Coping, **No 9** and adjust the Liner, **No 10** **Fig 8 & 11**

INSTALL BEADED RECEPTOR TRACK FOR BEADED LINERS

The **Beaded Liner** should be **FITTED** or **SNAPPED** into the Beaded Liner Track, **No. 13F**, continuing around the entire pool. On the round section of the pool use curved sections and on the straight section of the pool use 36" straight sections. Next, SNAP or SLIDE a **6" piece of wall rail, No. 13R** over the joints of the Beaded Liner Receptor, **No. 13F**. Check to be sure that the Bottom Seam of the LINER **No. 10**, is positioned on the curve of the sand cove. See **Fig. 9**.

INSTALL TOP STRAIGHT WALL RAILS AND CURVED WALL RAILS FOR OVERLAP LINERS ONLY.

L. At the top, on the straight side of the pool, between the centers of the Buttress Uprights, **No. 19**, place Straight Wall Rails, **No. 4**, over Plastic Coping, **No. 9**, and push down firmly to secure Liner, **No. 10**, Coping, **No. 9**, and Pool Wall, **No. 1**, **Fig. 8**.

M. For the round end of the pool, install Curved Wall Rails, **No. 13**, over the Plastic Coping, **No. 9**. **Fig. 8**. These top Curved Wall Rails, **No. 13** will be in line with previously installed Bottom Wall Rails, **No. 13**.

INSERT TOP JOINERS

N. See **Fig. 9**. After installing either Curved Wall Rails, **No. 13** over the Plastic Coping or Beaded Track, **No. 9** insert the Round Top Joiners, **No. 20A**, over the Curved Wall Rails or Beaded Track, on the top which will be above and in-line to the previously installed Curved Wall Rails, **No. 13** at the bottom. **Fig. 3 & 4**. Install Universal Aluminum Joiners, **No. 21**, to the top of the Buttress Uprights, **No. 19** by first inserting the Universal Aluminum Joiner to the Buttress Upright with two (2) 10x5/8" self tapping screws, **No. 25B**. Repeat for the other side of the pool.

O. Check all Buttress Assemblies and Upright for squareness and perpendicular straightness. **Fig. 36**

LONG SIDE STRAIGHT TOP RAILS

P. Place the Long Straight Top Rails, **No. 5**, over Universal Joiners, **No. 21**, and over round Top Joiners, **No. 20**. Secure Top Rails with four 10x5/8" self tapping screws, **No. 25B**. **Fig. 12**. Cover all exposed sharp cut edges with tape.

TOP RAILS

Q. Place the beveled Top Rails, **No. 3** on top of the Round Top Joiners, **No. 20A**. Fasten together with four (4) 10x5/8" screws, **No. 25B**. See **Fig. 12**. Cover all exposed sharp cut mitres with masking or duct tape.

TOP CAP SETS

R. Place the Inside Cap, **No. 12A** and the Outside Cap, **No. 12B**, over and covering all the exposed seams where the Top Rails, **No. 3** meet at the Top Joiners. Secure the Caps, **No. 12A & 12B**, to each Top Joiner, **No. 20** with one 14x1" SS Screw, **No. 26**, for **STEEL top rails and for RESIN top rails use 14x1-1/2 SS Screw No 26A, Fig. 13.** For the Milano, attach the Outside Cap, **No. 12B**, to the Upright by drilling a 1/8" hole in the Upright and securing with one 14x1" SS Screw, **No. 26**. See **Fig 14**.

For Plated Hardware

To insure minimum corrosion, after assembly please apply a coat of clear nail polish or other clear or colored lacquer to hardware.

Preventative Maintenance Tips

- Use clear lacquer or clear nail polish to cover screw heads in your swimming pool.
- Use clear lacquer or nail polish to cover any scratches on ledges or verticals of your swimming pool to prevent rust and corrosion.
- Use wax to protect the pool wall and frame from the elements.
- Never leave the swimming pool drained (without water). This can cause liner shrinkage and damage the pool wall and frame.
- If you use the Thru The Wall fittings for your filter and decide to dismantle your pool or remove your liner, it is possible that you may not be able to realign these holes and a new liner may have to be purchased.
- Check regularly for signs of wear or loose bolts that could make the swimming pool, the pool ladder, the pool deck, or any other related object unsafe.
- For pool service, select a certified pool professional

WARNING

Check all the metal on the swimming pool frame and pool wall for signs of corrosion or deterioration. Remove any corrosion and touch up with paint. Excessive deterioration can lead to failure of the pool structure, which might release large quantities of water that could cause bodily harm and property damage.

Make sure skimmer does not leak as this will corrode the pool wall and cause a split in the wall that is not covered under the pool warranty.

DANGER

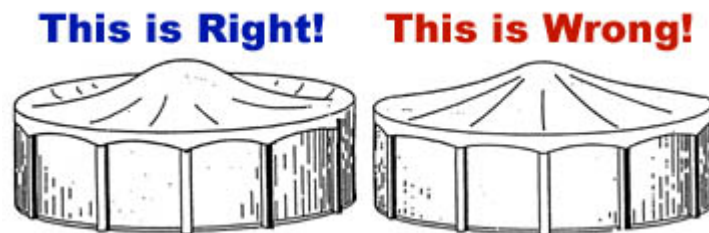
After the above ground swimming pool has been completely assembled and filled with water, do not attempt to make any structural changes or to disassemble the swimming pool. Disregard of the above warning can cause pool collapse, property damage and serious injury.

WINTER CARE

GENERAL COMMENT: In as much as these pools are distributed to users in all geographical areas and are installed under varying climactic conditions, you must use your own judgment to determine the wisdom of leaving your pool up through the winter. The manufacturer cannot assume any responsibility for pool failure which might result from winter hazards, or from misuse or neglect. To winterize your pool properly you must follow these steps:

1. If thru wall skimmer inlet and outlets are used, the skimmer must be blocked off with a winter plate to prevent any water from laying in the skimmer. The return fitting must also be blocked off by using a plug on the inside of the pool. It is very important that the return fitting not protrude into the pool and that water is not allowed to flow into the skimmer. If this is not followed, when the ice in your pool forms it will grab onto your skimmer and return fittings, and if the ice should shift it will rip your wall at these locations.
2. Proper chemicals must be used in order to prevent algae growth throughout the winter. Contact your local pool professional for correct winterizing chemicals.
3. A cover may be used to keep out dirt and debris from the pool. It is important when securing the cover that enough slack is used so that it rests on the top of the water so that the pressure is not on the pool frame. A build up of snow on the top of the cover should be removed. If a cover is used, a properly sized ice compensator (pool pillow) must be secured in the pool water to relieve the ice pressure that can exert severe pressure on the pool wall
4. Never permit ice skating or other winter sports on the pool or pool cover during the winter months.

AVOID WINTER DAMAGE INSTALL YOUR WINTER COVER CORRECTLY



This is Right! The cover should lie on the surface of the pool water. Leave slack, do not pull tight. Any excessive accumulation of water, or snow should be removed immediately

This is Wrong! Do not install the cover this tight. The weight of snow or rain will force the cover at the seams and along the pool edges.

IMPORTANT: During the winter months, inspect your pool and surrounding area. Remove any accumulation of water, ice and snow from the top of the pool and from the skimmer and return to prevent formation of an ice, water or snow load which can cause severe damage to pool and pool cover.

It is essential that you monitor the amount of snow and ice on top of your pool during the winter months. If you feel that the cable that attaches the cover to the pool is too tight and is pulling up on the pool ledges, or is creating excessive weight on the pool, release the cable at once to prevent damage to the pool.

Please note: Improper installation of your pool cover can cause damage to your pool and will void all pool and cover warranties.

Consumer awareness information is available from the following sources:

The Association of Pool and Spa Professionals (APSP)

2111 Eisenhower Avenue, Alexandria, VA 22314, Tel. 703-838-0083, www.TheAPSP.org

The Sensible Way to Enjoy Your Aboveground/Onground Swimming Pool

Children Aren't Waterproof

Layers of Protection

Pool and Spa Emergency Procedures for Infants and Children

Copies of the above brochures are available free from The APSP at 1-800-323-3996. Also go to the APSP website and consult "Consumer Resources": www.TheAPSP.org

Safety Education Programs and Materials

Educational programs and materials (i.e., seminars, workshops, brochures, videos, instructional guides) are available from The APSP, other aquatic safety groups, and by private firms. As a means of communicating useful safety information to pool owners/operators, and users, industry members are permitted to provide such information to owners/operators and to request or require owners/operators to sign a statement that they have received, read, and will follow the guidelines.

Other sources of safety information

www.cdc.gov

www.cpsc.gov

www.drowningpreventionalliance.com

www.nspf.org

www.safekids.org

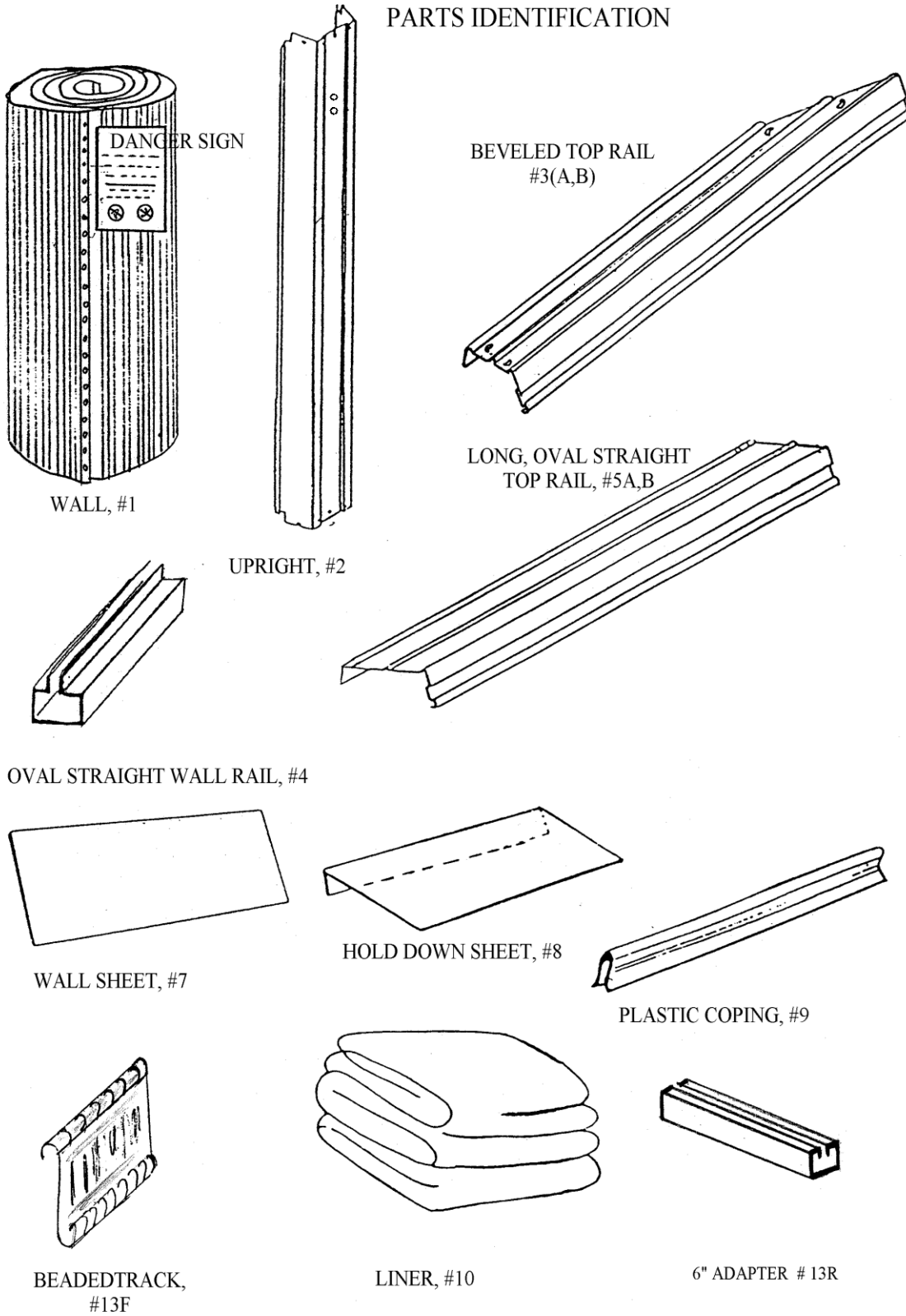
MILANO		P									1	1	1	1	1	1	1
PARTS LIST 1 OF 4		A	1	1	1	2	2	2	3	2	2	2	2	5	5	8	8
		R	2	5	8	1	4	7	0	1	2	2	2	2	3	3	3
		T								8	1	4	4	4	0	3	9
TOP RAIL CARTONS STEEL																	
TRT-45	MILANO RUFFCOTE STEEL, TR-46"	3A	10							10	10	10					
TRT-57	MILANO RUFFCOTE STEEL, TR-57"	3B		10	12	14	16	18	20				10	10	12	12	
NO DIVING SH	NO DIVING LABEL, AFFIXED TO TOP RAIL	3C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TRCTN-T&B	TOPRAIL CARTON	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOP RAIL CARTONS RESIN																	
RTRT-46	MILANO RESIN TOPRAIL-46"	3A	10							10	10	10					
RTRT-57	MILANO RESIN TOPRAIL-57"	3B		10	12	14	16	18	20				10	10	12	12	
RTRT-36	MILANO RESIN TOPRAIL-36"	5A								4	6	8	6	10	10	14	
TRCTN-T&B	TOPRAIL CARTON	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UPRIGHT CARTONS 52" STEEL																	
UPT-52	MILANO RUFFCOTE UP, 52"	2	10	10	12	14	16	18	20	8	8	8	8	8	10	10	
52UPCTN	UPRIGHT CARTON	2A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
UPRIGHT CARTONS 52" RESIN																	
RUPT-52	MILANO UPRIGHT 52" RESIN	2	10	10	12	14	16	18	20	8	8	8	8	8	10	10	
52UPCTN	UPRIGHT CARTON	2A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BUTTRESS & BUTTRESS BRACE CARTONS 52"																	
MS16219-35PT	BUTTRESS BRACE	16								6	8	10	8	12	12	16	
MS16219-52PT	BUTTRESS UPRIGHT	19								6	8	10	8	12	12	16	
BUBBCTN-T&B	BUTTRESS CARTON	BBC								1	1	1	1	1	1	1	1
OVAL STEEL LONG TOPRAIL CARTONS 52"																	
TRT-72	MILANO LONG TOP RAIL-72"	5A								2		4		2	2	4	
TRT-108	MILANO LONG TOP RAIL-108"	5B									2		2	2	2	2	
NO DIVING SH	NO DIVING LABEL, AFFIXED TO TOP RAIL	ND								2	2	4	2	4	4	6	
1218STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1218								1							
1221STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1221									1						
1224STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1224										1					
1524STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1524											1				
1530STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1530												1			
1833STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1833													1		
1839STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1839														1	
	BSTRAP-101.5"	17A								6	8	10	8	12	12	16	
	BSTRAP-38.6"	17B											4	6			
	BSTRAP-74.5"	17C													6	8	
LTRCTN-072-2	LONG TOP RAIL CTN	LTC								1		2		1	1	2	
LTRCTN-108-2	LONG TOP RAIL CTN	LTC									1		1	1	1	1	1
OVAL STRAPSET BOX FOR RESIN TOPRAIL POOLS ONLY																	
1218STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1218								1							
1221STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1221									1						
1224STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1224										1					
1524STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1524											1				
1530STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1530												1			
1833STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1833													1		
1839STRAPSET	OVAL STRAP CONNECTOR TIESTRAPS	1839														1	
	BSTRAP-101.5"	17A								6	8	10	8	12	12	16	
	BSTRAP-38.6"	17B											4	6			
	BSTRAP-74.5"	17C													6	8	
52UPCTN	UPRIGHT CARTON	2A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

MILANO		P	1	1	1	2	2	2	3	1	1	1	1	1	1	1
PARTS LIST 2 OF 4		A	2	5	8	1	4	7	0	2	2	2	5	5	8	8
		R								8	1	4	4	0	3	3
		T														9
HARDWARE CARTON																
12CR	CURVED RAIL, 46"	13A	20							20	20	20				
15CR56	CURVED RAIL, 56"	13B		20									20	20		
18CR56	CURVED RAIL, 56"	13C			24										24	24
21CR56	CURVED RAIL, 56"	13D				28										
24CR56	CURVED RAIL, 56"	13E					32									
27CR56	CURVED RAIL, 56"	13F						36								
30CR56	CURVED RAIL, 56"	13G							40							
PLCP1X56-01	PLASTIC COAMING	9	9	10	12	14	16	18	20	11	13	14	15	17	19	22
MHI6505-35.6	OVAL STRAIGHT RAIL, 35.6"	4								8	12	16	12	20	20	28
THE FOLLOWING COMBINATION OF BOTTOM CURVED RAILS AND BEADED RECEPTOR TRACK REPLACE THE EQUIVALENT QUANTITIES OF CURVED RAILS IN THE ABOVE HARDWARE CARTON, WHEN USING A BEADED LINER																
12BR-46S10	MS16311, 46", SET 12" DIAMETER	13	1													
15BR-56S10	MS16311, 56", SET 15" DIAMETER	13		1												
18BR-56S12	MS16311, 56", SET 18" DIAMETER	13			1											
21BR-56S14	MS16311, 56", SET 21" DIAMETER	13				1										
24BR-56S16	MS16311, 56", SET 24" DIAMETER	13					1									
27BR-56S18	MS16311, 56", SET 27" DIAMETER	13						1								
30BR-56S20	MS16311, 56", SET 30" DIAMETER	13							1							
1218BR-46S10	MS16311, 1218 OVAL SET	13								1						
1221BR-46S21	MS16311, 1221 OVAL SET	13									1					
1224BR-46S24	MS16311, 1224 OVAL SET	13										1				
1524BR-56S24	MS16311, 1524 OVAL SET	13											1			
1530BR-56S30	MS16311, 1530 OVAL SET	13												1		
1833BR-56S33	MS16311, 1833 OVAL SET	13													1	
1839BR-56S39	MS16311, 1839 OVAL SET	13														1
YOU MUST INSERT PART MHI7722-6 PART NO. 13R AS SHOWN IN FIGURE 9, WITH BEADED LINERS																
MHI7722-6	TRACK SPACER 6"	13R	10	10	12	14	16	18	20	14	16	18	16	20	22	26
	MS16311, 36"PCS	13F								4	6	8	6	10	10	14
	MS16311, 46"PCS	13G	10							10	10	10				
	MS16311, 56"PCS	13H		10	12	14	16	18	20				10	10	12	12
MHI6505-35.6	OVAL STRAIGHT RAIL, 35.6"	4								4	6	8	6	10	10	14
12CR	CURVED RAIL, 46"	13A	10							10	10	10				
15CR56	CURVED RAIL, 56"	13B		10									10	10		
18CR56	CURVED RAIL, 56"	13C			12										12	12
21CR56	CURVED RAIL, 56"	13D				14										
24CR56	CURVED RAIL, 56"	13E					16									
27CR56	CURVED RAIL, 56"	13F						18								
30CR56	CURVED RAIL, 56"	13G							20							
MS16508-5P	OVAL, ALUM JOINER	21								12	16	20	16	24	24	32
MS16708-2.7P	BOTTOM SQUARE CHANNEL	15								6	8	10	8	12	12	16
MS16710-4P	STRAP ANGLE BRACKET	22								6	8	10	8	12	12	16
MS16787-4P	BUTTRESS SUPPORT BRACKET	14								6	8	10	8	12	12	16
3/8-16KN12	KEP NUT, 12 PC PKG	23								1	2	2	2	2	2	3
	3/8-16X1HEX	23A								12	24	24	24	24	24	36
	3/8-16KN-01	23B								12	24	24	24	24	24	36
WSCREWBAG-52	1/4-20X5/8 TRKN 32 PC PKG	24								4	6	7	6	9	9	12
	1/4-20X5/8TR	24A								128	192	224	192	288	288	384
	1/4-20NYLNSS	24B								128	192	224	192	288	288	384
44881-6.6PPB	POLYMER JOINER BOTTOM PLATE	20B	10	10	12	14	16	18	20	8	8	8	8	8	10	10
44881-6.6PPB	POLYMER JOINER TOP PLATE	20T	10	10	12	14	16	18	20	8	8	8	8	8	10	10
10X5/8-32WSS	WASHER HEAD, 32 PIECES /PKG	25A	4	4	5	6	6	7	8	5	6	7	6	7	8	12
FOR RESIN UPRIGHT POOLS																
10X3/4SMS-04	10X3/4" STAINLESS SCREW 4 PCS	57	3	3	3	4	4	5	5	2	2	2	2	2	3	3
FOR STEEL TOPRAIL POOLS																
14X1-04SSP	S/S SCREW CAPSET, 4 PIECES 1"	26	5	5	6	7	8	9	10	7	8	9	8	10	11	13
FOR RESIN TOPRAIL POOLS																
14X1-04SSP	S/S SCREW BOTTOM CAP 4 PIECES 1"	26	3	3	3	4	4	5	5	4	4	5	4	5	6	7
14X1-1/2-04SSP	S/S SCREW TOPCAP, 4 PIECES 1 1/2"	26A	3	3	3	4	4	5	5	4	4	5	4	5	6	7

MILANO		P A R T	1 2	1 5	1 8	2 1	2 4	2 7	3 0	1 8	1 2	1 4	1 4	1 5	1 5	1 8	1 8
PARTS LIST 3 OF 4																	
INSTRUCTIONS	INSTRUCTION PACKET	27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OWNER MANUA	INSTRUCTION SHEET	27A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY I	OWNERS RESPONSIBILITY	27B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY II	CAUTION NO DIVING, NO JUMPING	27C	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY III	SAFETY FIRST LABELS	27D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY IV	SAFETY LABELS LINER	27E	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY V	ALL POOL USERS SIGNS	27F	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY VI	FACTORY AFFIXED LABELS	27G	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY VII	SAFETY TIPS POOL USE	27H	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY VIII	SAFETY TIPS POOL USER	27I	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY X	CHEMICAL VOCABULARY	28	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XI	CHEMICAL TREATMENT/MAINTENANCE	29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XII	SAFETY CHECKLIST	30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XIII	DECK/FENCE REQUIREMENTS	31	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XIV	MODEL BARRIER CODE NSPI-8	32	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XV	POOL ENTRY ENCLOSURE SYSTEM "PE	33	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XVI	BOCA EXCERPTS 421.1 ETC	34	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XVII	CONSUMER PRODUCT ALERT	35	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XVIII	USE CERTIFIED POOL PRO'S	36	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XIX	PRORATED 30 YEAR WARRANTY	37	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADVISORY XX	REPLACEMENT PARTS SCHEDULE	38	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NSPI BOOKLET	ANSI/NSPI-4 ABOVEGROUND STANDAR	39	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NSPI BOOKLET	SENSIBLE WAY TO SWIM IN ABOVEGRO	40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NSPI BOOKLET	CHILDREN AREN'T WATERPROOF	41	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NSPI BOOKLET	POOL AND SPA PROCEDURES	42	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NSPI BOOKLET	LAYERS OF PROTECTION	43	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HDWCTN	ROUND HARDWARE CARTON	CTN	1	1	1	1	1	1									
HDWCTN-01	OVAL HARDWARE CARTON	CTN								1	1	1	1	1	1	1	1
HOLD DOWN & WALL SHEETS FOR 52" OVAL WALLS ARE PACKED IN INDIVIDUAL CARTONS																	
WS18X40-01S	OVAL SIDE WALL SHEET	7								4	6	8	6	10	10	14	
HD18X40-01S	OVAL BOTTOM HOLD DOWN SHEET	8								4	6	8	6	10	10	14	
WSCARTON	CARTON	CTN								1	1	1	1	1	1	1	
THRU WALL SKIMMER CARTON																	
SM-101RRRL	THRU WALLSKIMMER	101	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

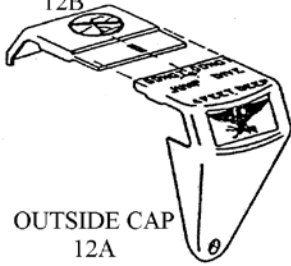
MILANO		P	1	1	1	2	2	2	3	1	1	1	1	1	1	1
PARTS LIST 4 OF 4		A	2	5	8	1	4	7	0	2	2	2	5	5	8	8
		R								8	1	4	4	0	3	3
		T														9
WALL CARTON																
W120452-114T	12' MILANO WALL	1A	1													
W150562-142T	15' MILANO WALL	1B		1												
W180672-170T	18' MILANO WALL	1C			1											
W210785-198T	21' MILANO WALL	1D				1										
W240898-227T	24' MILANO WALL	1E					1									
W271008-255T	27' MILANO WALL	1F						1								
W301118-283T	30' MILANO WALL	1G							1							
W280596-151T	1218 MILANO WALL	1H								1						
W221668-169T	1221 MILANO WALL	1I									1					
W220740-187T	1224 MILANO WALL	1J										1				
W520775-196T	1524 MILANO WALL	1K											1			
W530923-233T	1530 MILANO WALL	1L												1		
W831029-260T	1833 MILANO WALL	1M													1	
W891173-297T	1839 MILANO WALL	1N														1
WLABEL	WALL LABEL, AFFIXED	WL	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EXCELLENCE	EXCELLENCE, LABEL AFFIXED	EX	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DANGER-ALLUS	DANGER SIGN AFFIXED	DS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
WSCREWBAG-52	1/4-20X5/8TRKN, 32 PCS	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SICAP-T	MILANO INSIDE CAP	12A	10	10	12	14	16	18	20	14	16	18	16	20	22	26
SOCAP-T	MILANO OUTSIDE CAP	12B	10	10	12	14	16	18	20	14	16	18	16	20	22	26
PLASTIC BAG	PLASTIC BAG	PB	2	2	2	2	2	2	2	2	2	2	2	2	2	2
WCTN-T&B52	WALL CARTON	CTN	1	1	1	1	1	1	1	1	1	1	1	1	1	1
OUR 30 YEAR LIMITED WARRANTY IS NULL AND VOID IF ALL ORIGINAL PRIMARY AND SECONDARY STRUCTURAL PARTS ARE NOT REPLACED BY THE ORIGINAL MANUFACTURER.																

PARTS IDENTIFICATION

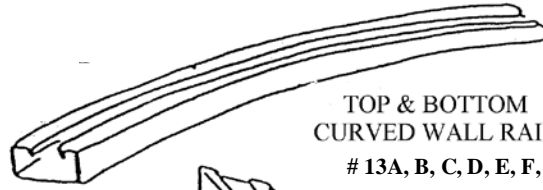


PARTS IDENTIFICATION

INSIDE CAP
12B

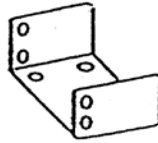


OUTSIDE CAP
12A

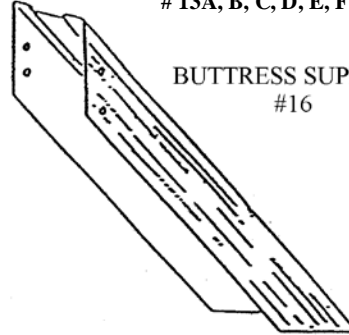


TOP & BOTTOM
CURVED WALL RAIL
13A, B, C, D, E, F,

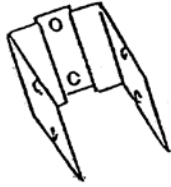
BOTTOM SQUARE
CHANNEL, #15



BUTTRESS SUPPORT
#16



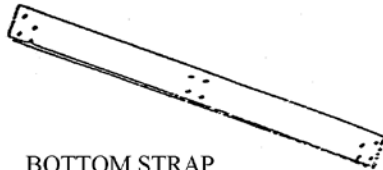
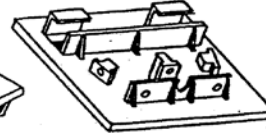
BUTTRESS
SUPPORT
BRACKET, #14



ROUND JOINER
TOP, #20A



ROUND JOINER
BOTTOM, #20B



BOTTOM STRAP
#17A, B, C

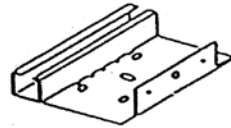
USE NEW
BIT

INSERT BITS
1/4" HEX PHILLIPS
#2 POINT

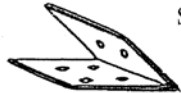


BUTTRESS
UPRIGHT, #19

UNIVERSAL
JOINER, #21



STRAP ANGLE,
#22



3/8-16X1"
HEX. BOLT
#23A



3/8-16KN
NYLON NUT
#23B



1/4-20X5/8"
#24A



1/4-20KN
NYLON NUT
#24B



10X5/8"WH
#25A, B



14X1" SS
#26

SIZE	APPROXIMATE RADIUS
12'	5' 11"
15'	7' 5"
18'	8' 11"
21'	10' 5"
24'	11' 11"
27'	13' 5"
30'	14' 10"

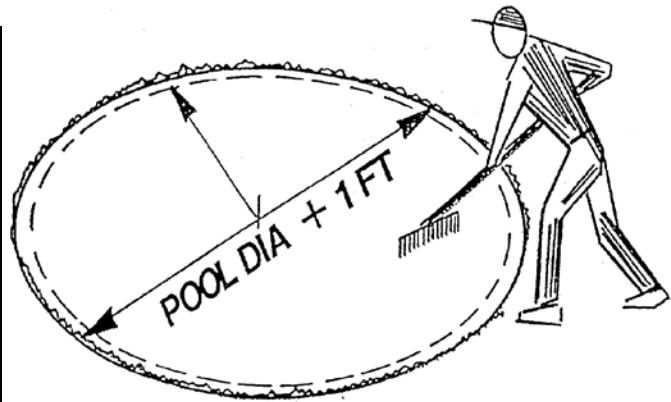


FIGURE 1

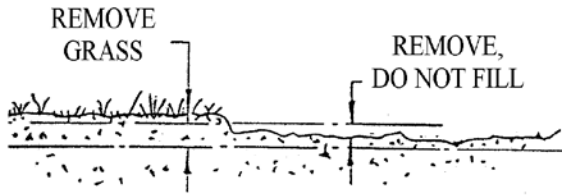


FIGURE 2A

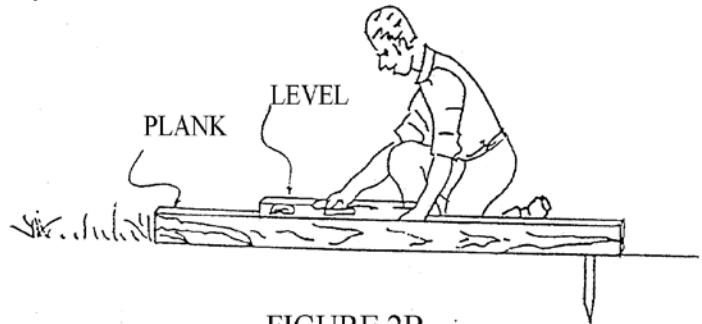


FIGURE 2B

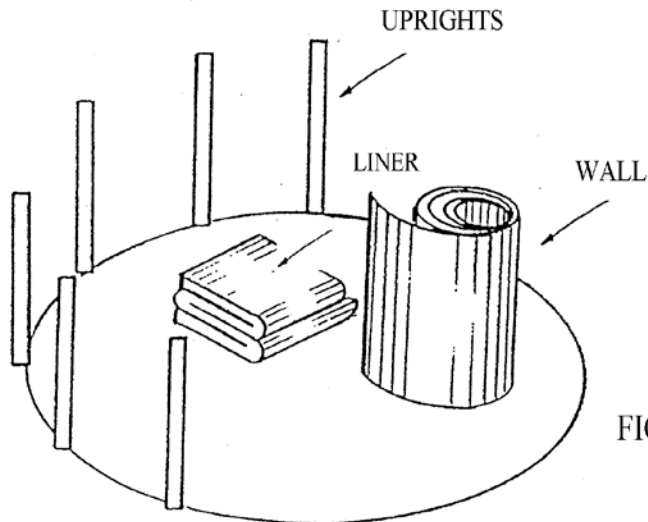
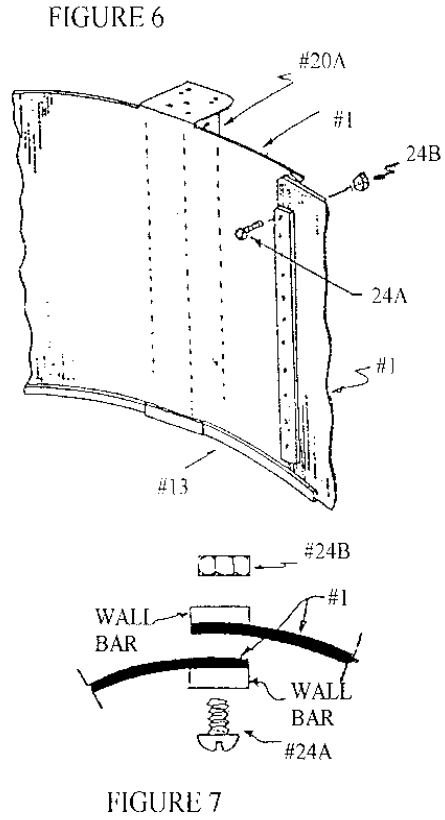
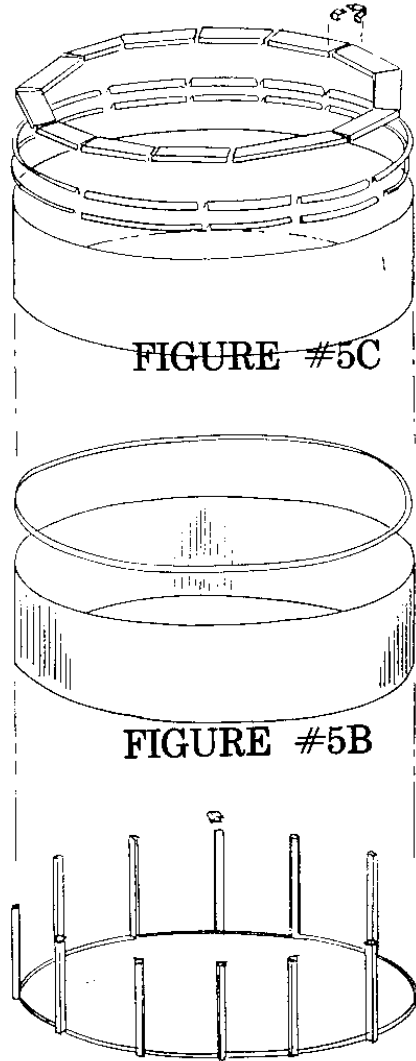
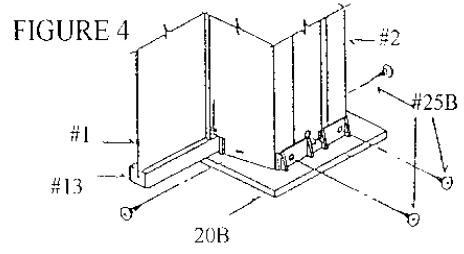
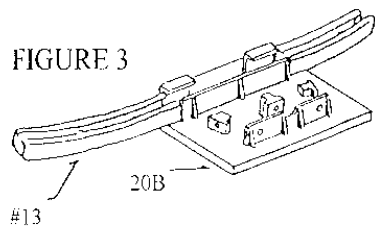
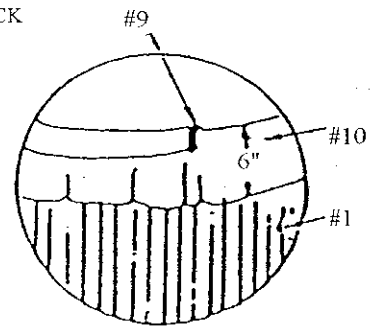
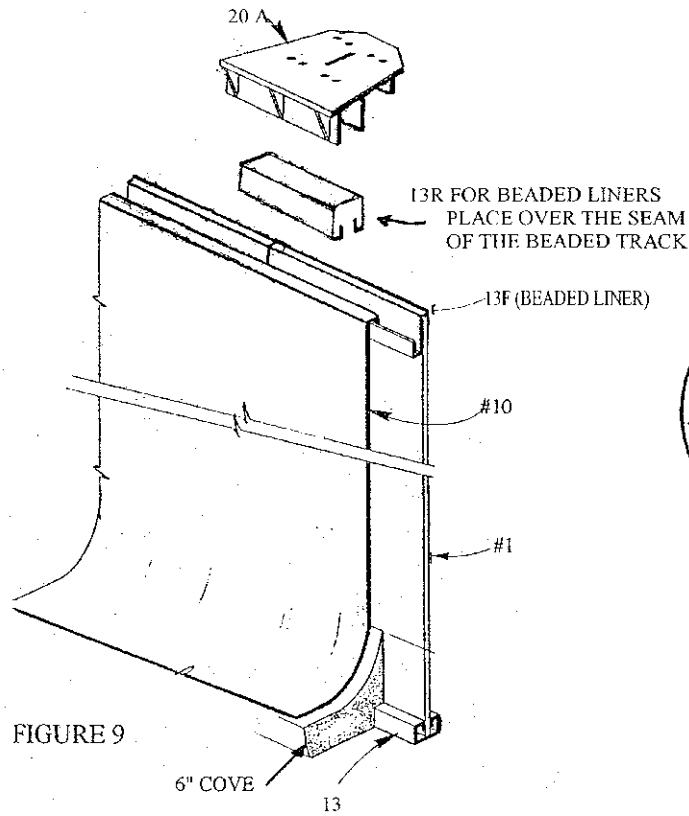
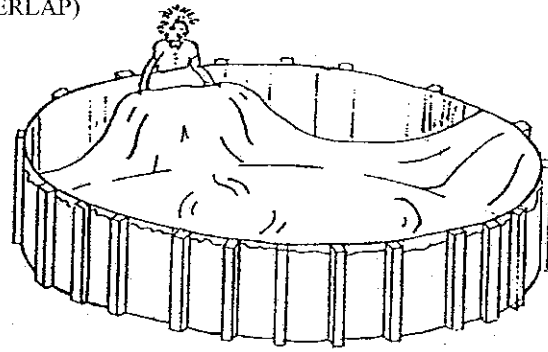
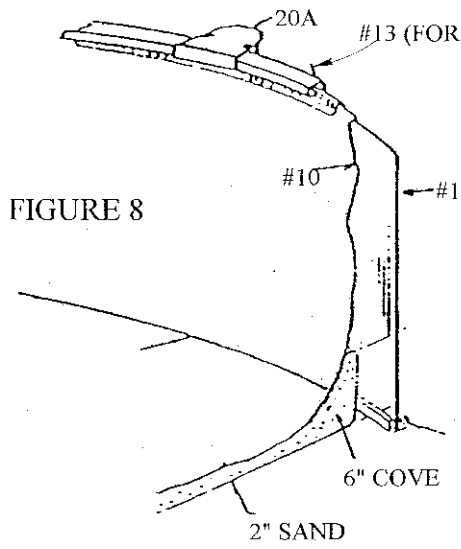


FIGURE 2C





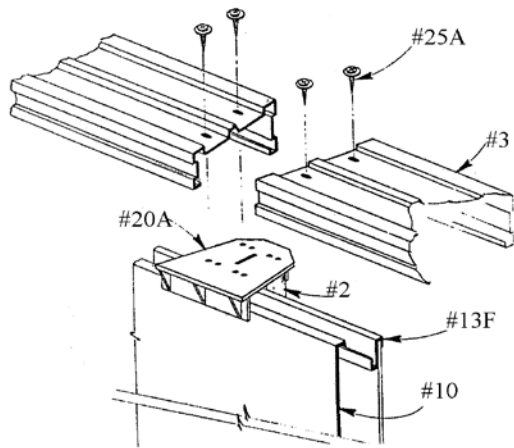


FIGURE 12

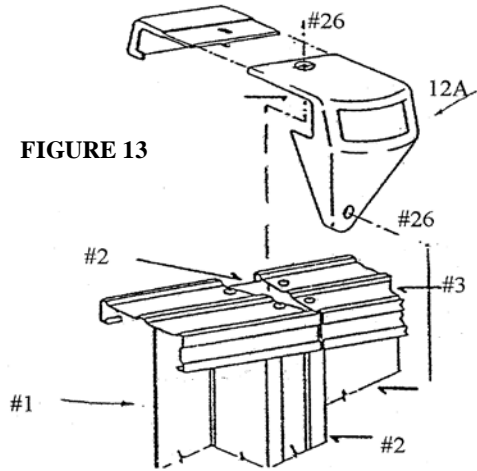


FIGURE 13

FOR RESIN TOPRAIL POOLS

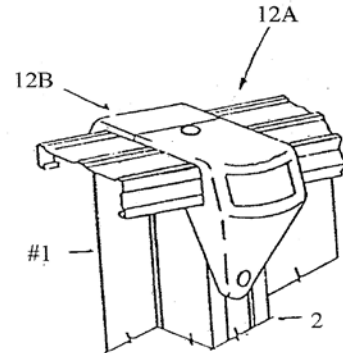
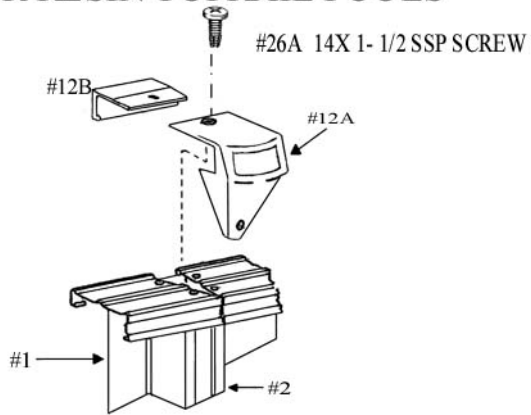
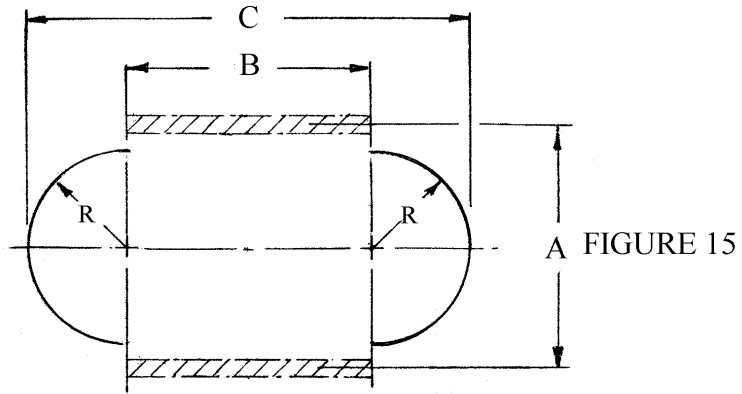


FIGURE 14



SIZE	R	A	B	C
1218	6'0"	16'6"	7'0"	19'0"
1221	6'0"	16'6"	10'0"	22'0"
1224	6'0"	16'6"	13'0"	25'0"
1524	7'6"	19'6"	10'0"	25'0"
1530	7'6"	19'6"	16'0"	31'0"
1833	9'0"	22'6"	16'0"	34'0"
1839	9'0"	22'6"	22'0"	40'0"

TABLE 1

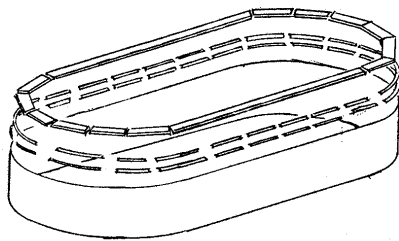


FIGURE 18B

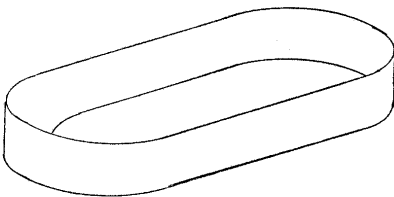


FIGURE 18A

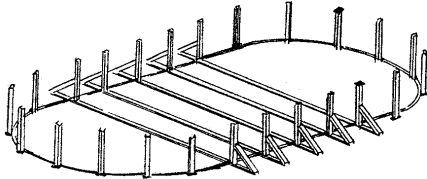


FIGURE 18

FIGURE 17

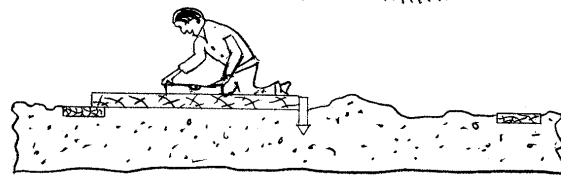
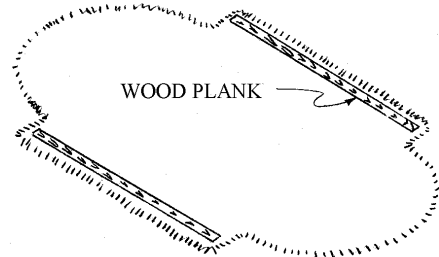


FIGURE 16

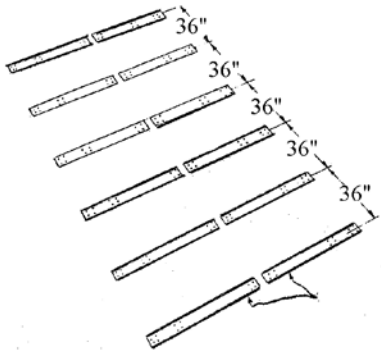
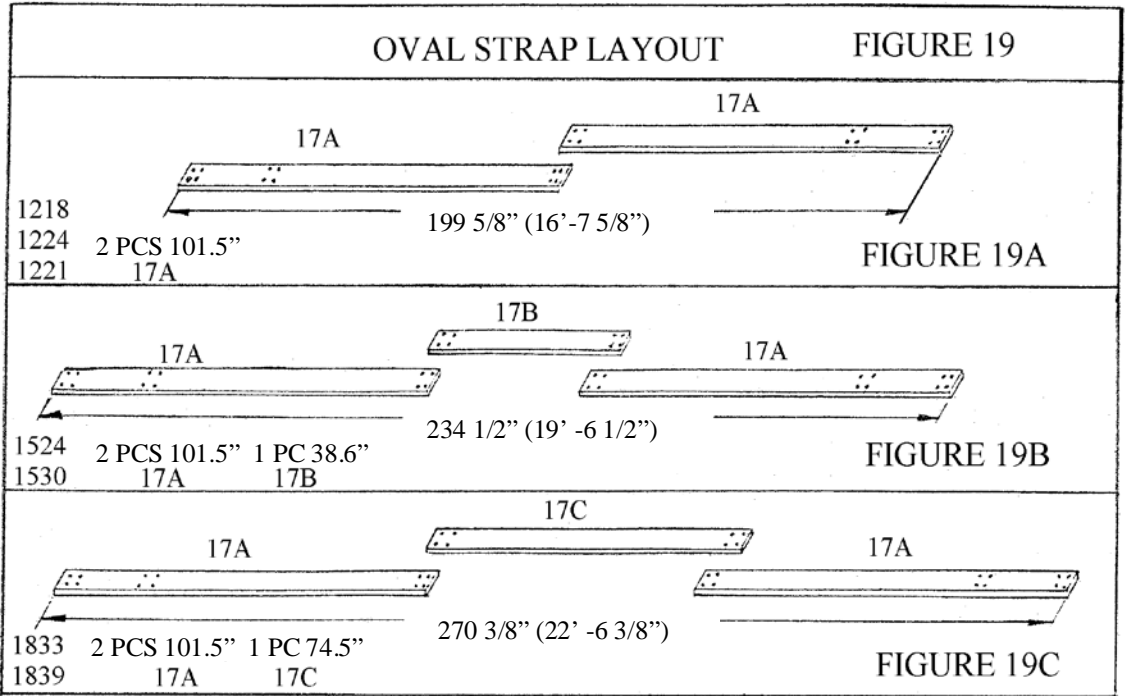


FIGURE 19D

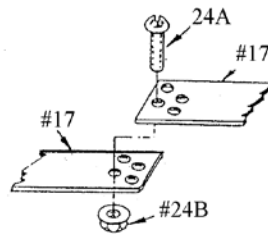


FIGURE 19E

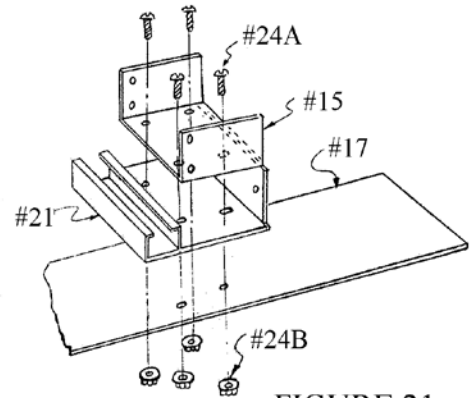


FIGURE 21

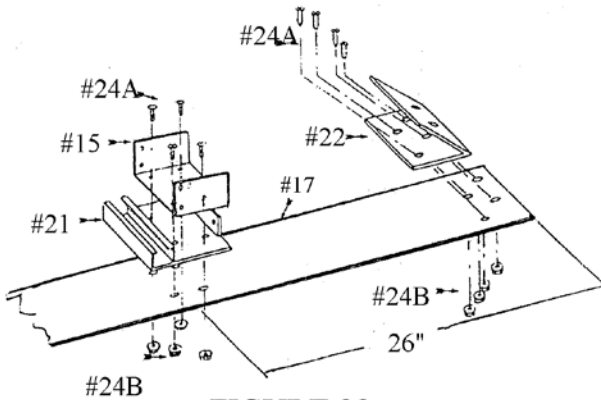


FIGURE 22

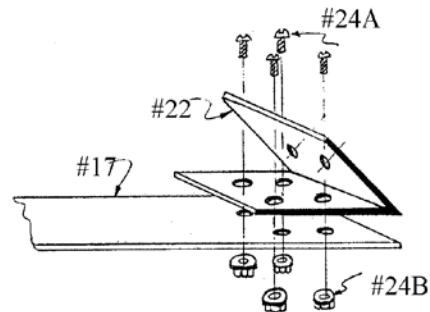


FIGURE 23

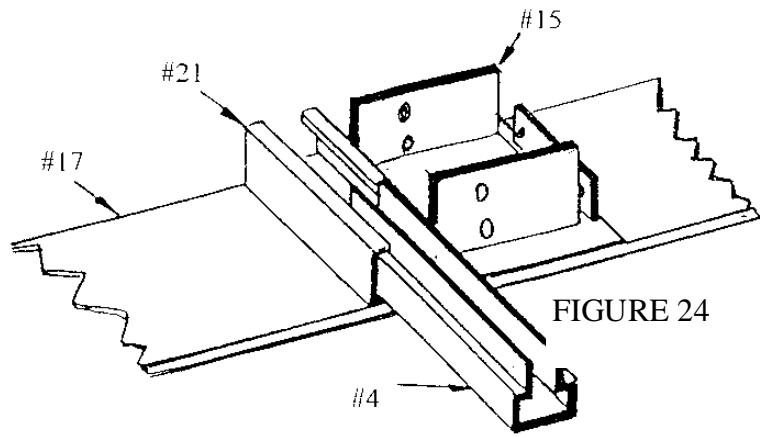


FIGURE 24

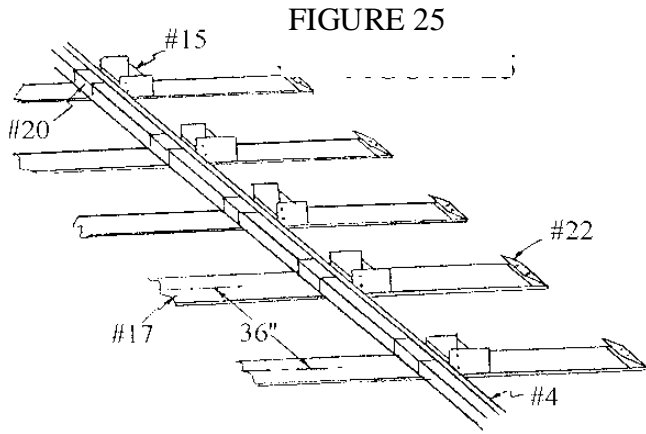


FIGURE 25

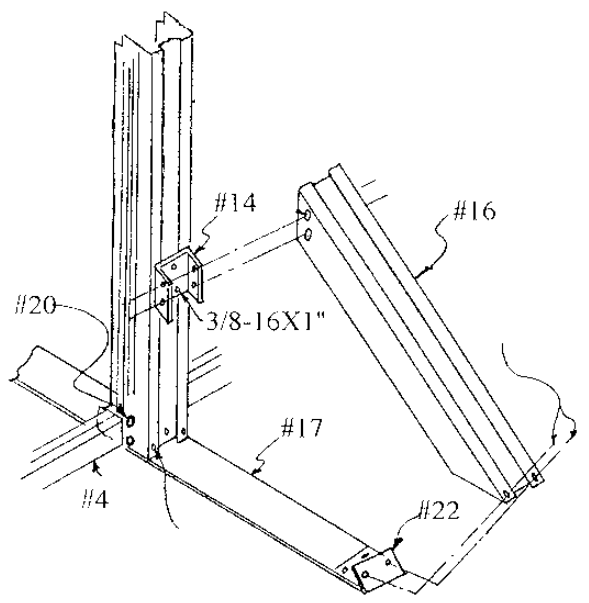


FIGURE 26

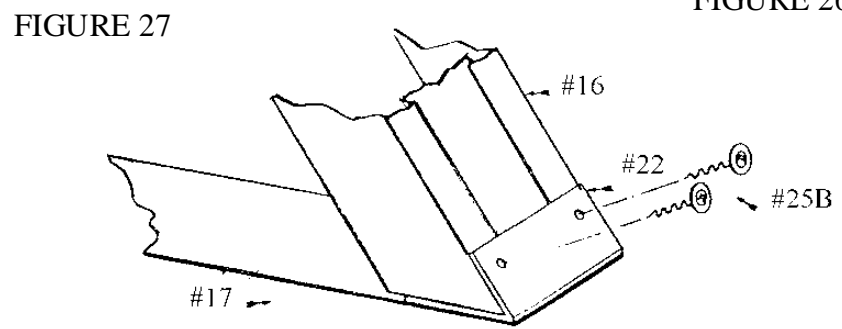


FIGURE 27

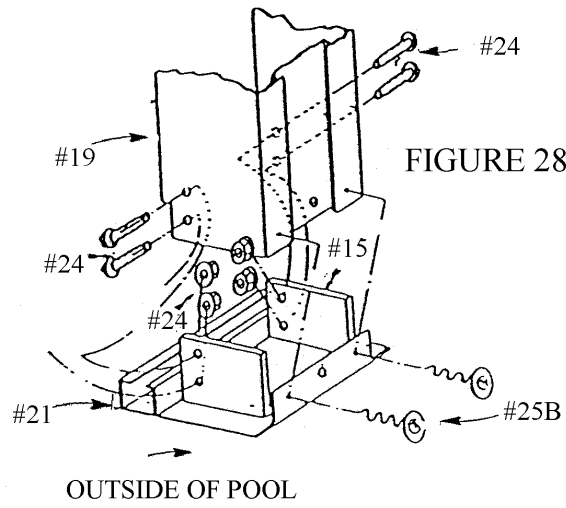


FIGURE 28

FIGURE 29

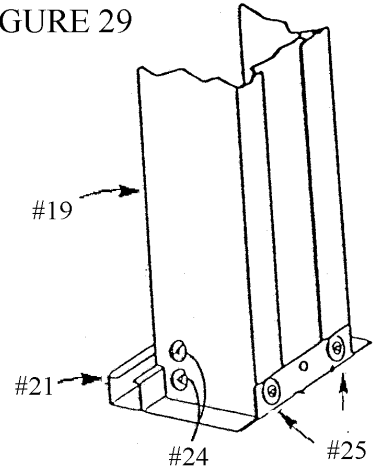


FIGURE 32

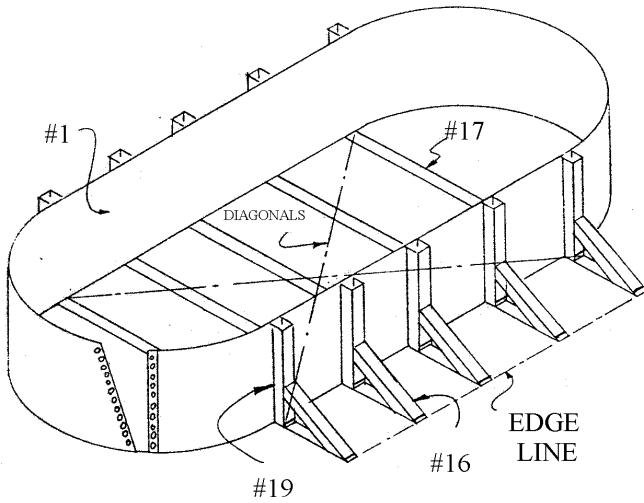
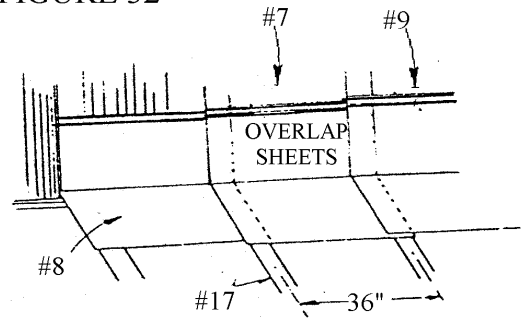


FIGURE 30

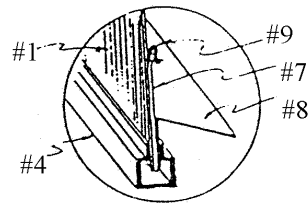


FIGURE 33

METAL BAR SHOULD
FACE INSIDE TOWARD
POOL LINER

METAL BAR SHOULD
FACE OUTSIDE OF
POOL WALL

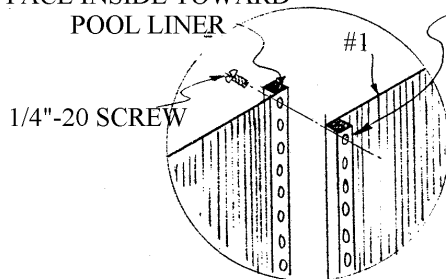


FIGURE 31

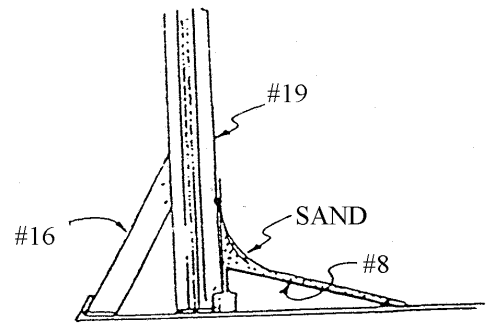


FIGURE 34

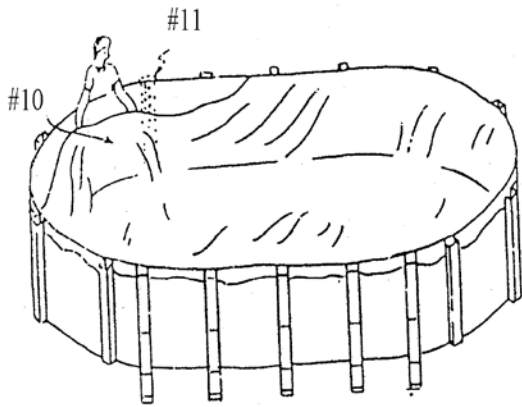


FIGURE 35

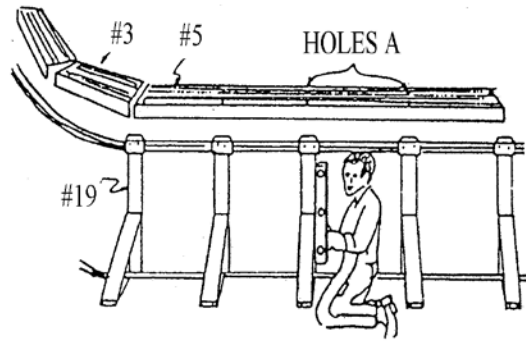


FIGURE 36

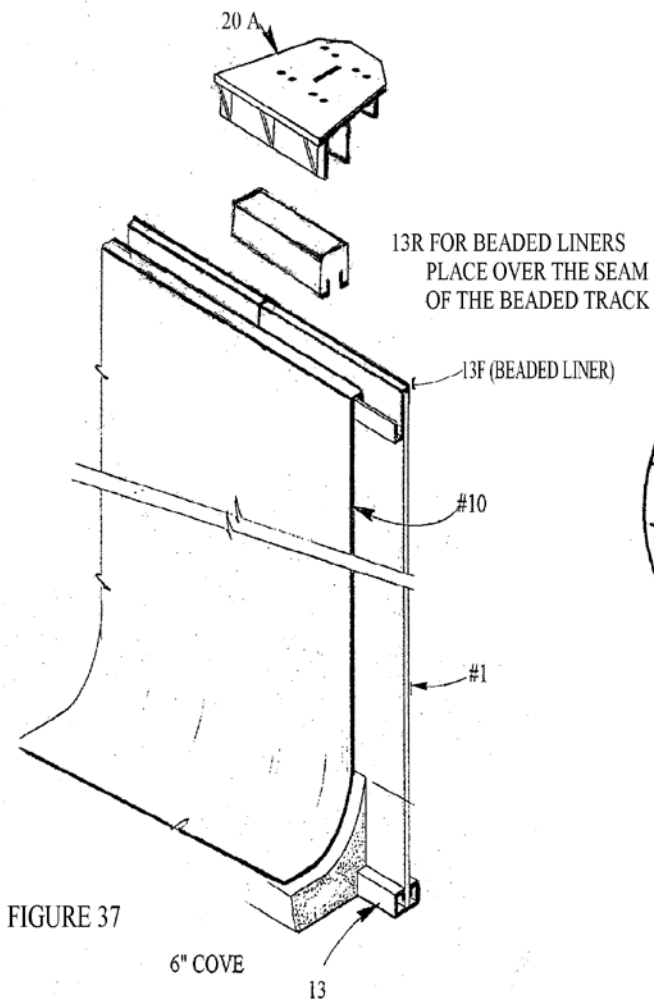


FIGURE 37

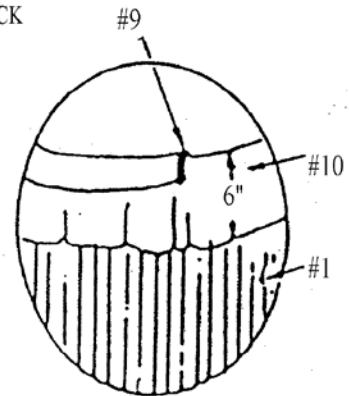


FIGURE 38

ADVISORY I

WARNING

According to current Association of Pool & Spa Professionals minimum standards for residential pools, your ABOVE GROUND/ ON GROUND POOL is classified as a Non-Diving Pool (Type O or Non-Conforming).

For your safety, read all information included in this packet before using your pool to avoid neck and head injury.

It is the:

POOL OWNER'S LEGAL RESPONSIBILITY

- 1) to WARN all users of the hazards of a pool,
- 2) to ENFORCE all safety rules, and
- 3) to MAINTAIN the pool and CORRECT any hazardous conditions.

You are responsible for informing all pool users of the enclosed information

- Understand it
- Communicate it
- Enforce it

ADVISORY II

CAUTION

ABOVE GROUND POOLS
ARE DESIGNED FOR WADING
AND SWIMMING

JUMPING, SLIDING OR DIVING
MAY CAUSE
SEVERE INJURIES

**PRODUCT SAFETY IS THE JOINT RESPONSIBILITY
OF THE MANUFACTURER AND END USER
(CONSUMER)**

Change of Design: The company expressly reserves the right to change or modify the design and construction of any product in due course of our manufacturing procedures, without incurring any obligation or liability to furnish or install such changes or modifications on products previously or subsequently sold.



**PRODUCT SAFETY IS THE JOINT RESPONSIBILITY OF THE MANUFACTURER AND THE
END USER (CONSUMER)**

ADVISORY III

INSTALLATION INSTRUCTIONS SAFETY FIRST LABELS

THINK SAFETY FIRST... AND SHARE YOUR WISDOM

**CAUTION: THESE POOLS ARE DESIGNED FOR SWIMMING ONLY
THEY ARE NOT DESIGNED FOR DIVING, SLIDING OR JUMPING. DO NOT STAND OR WALK ON TOP RAIL**

INSTALL SAFETY LABEL ON WALL AND LINER. Your new pool liner is designed for safe use by you, your family and friends. Do not MIS-USE the product by jumping or diving into the water.

JUMPING, SLIDING, OR DIVING MIS-USE!
The product is designed for swimming and for wading only.

If you jump into the water, you could seriously injure your back, neck, or hurt others. If you dive into the water, you could hit your head on the bottom. If you do, you could be paralyzed permanently from the neck down for the rest of your life.

We tell you this for a good reason. A number of people who chose to dive are now paralyzed. And the facts show that many of these were experienced divers! **WE DON'T WANT THIS TO HAPPEN TO YOU. DON'T JUMP, SLIDE OR DIVE!**

Install the safety labels we have provided. Follow the steps in the instruction manual.

Installation Guide. Inform family and friends about correct use of the product for safe pool enjoyment.

Think SAFETY FIRST....and share your wisdom!

PROTECT THE GOOD HEALTH OF YOUR FAMILY AND FRIENDS.

Placement of safety labels on the pool wall and pool liner is mandatory.

Peel off the backing and attach two (2) labels on a DRY liner so that the bottom edge of the label is no more than 4" below the top rail of the pool. Position as shown in the illustration in ADVISORY V. Place the other two labels on outside of the pool wall as shown.

Failure to comply with all caution signs and all pool safety rules may result in serious permanent body injury.

Write in number of liner model from outside of carton for future reference. Write in warranty card number.

▲ DANGER
SHALLOW WATER



No Diving – No Jumping

DIVING MAY CAUSE DEATH, PARALYSIS OR PERMANENT INJURY DO NOT REMOVE, COVER OR PAINT THIS SIGN



▲ DANGER
SHALLOW WATER

ADVISORY IV

INSTRUCTIONS FOR PROPER APPLICATION
OF
“DANGER--NO JUMPING NO DIVING” LABELS
BY DEALER/INSTALLER/POOL OWNER
TO
VINYL LINERS

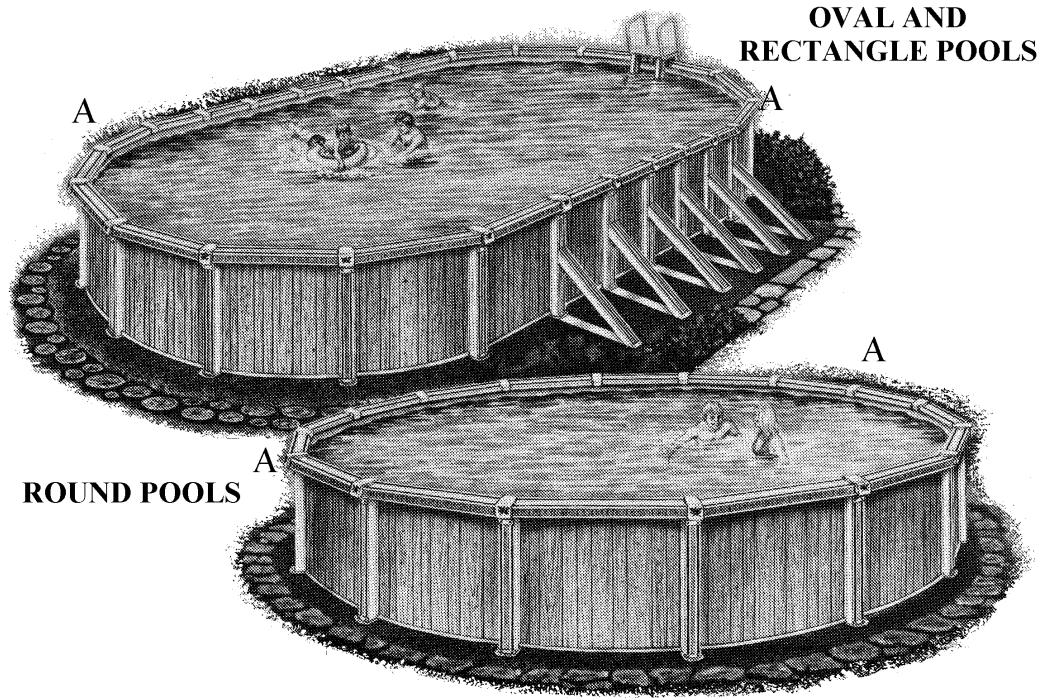


Application of “**Danger--No Jumping No Diving**” labels is easily accomplished by following the instructions set forth below:

1. The “**Danger--No Jumping No Diving**” labels provided have a decal type adhesive so that the labels can be affixed to the installed Vinyl Liner when the pool is nearly full of water.
2. Be sure the vinyl liner surface is clean and dry.
3. Remove the protective paper from the back of the label and place the label on the Vinyl Liner above the water line between the water level and the top of the pool wall in the designated area shown on Typical Type O, Non-Diving Pools on the reverse side. Do not place these labels below the surface of the water.
4. Slowly and carefully smooth the Label from the top down very lightly to remove air and wrinkles.
5. When in place, press Label firmly on the Vinyl Liner. Repeat Placement of additional labels supplied by Manufacturer.

ADVISORY V

POSITION LABELS AS SHOWN BELOW



Place the Safety Signage for the Liner directly across the Pool from the point of entry.
These Labels **must** be placed and affixed on the Liner.

**Failure to comply with all danger signs
and all pool safety rules may result in
serious permanent body injury.**

ADVISORY VI

CAUTION: ALL POOL USERS SIGN SUPPLIED WITH EVERY POOL

! DANGER

DIVING MAY CAUSE DEATH, PARALYSIS OR PERMANENT INJURY


TYPE O NON-DIVING POOL

FAMILIARIZE YOURSELF WITH THE DEPTH, CONTOUR, POTENTIAL HAZARDS, POOL RULES AND LIFE SAVING EQUIPMENT BEFORE ENTERING THE POOL

NO DIVING: NO DIVING EQUIPMENT

FROM DECK LEVEL
FROM TOP RAILS
FROM ALL LADDERS


SHALLOW WATER
NO DIVING



NO JUMPING:


FROM DECK LEVEL
FROM TOP RAILS
FROM ALL LADDERS

SHALLOW WATER
NO JUMPING



NO SLIDING: NO SLIDING EQUIPMENT


SHALLOW WATER
NO SLIDING



ALWAYS:

CLOSELY SUPERVISE CHILDREN
WARN USERS OF POOL HAZARDS
ENFORCE ALL SAFETY RULES

WATCH ALL CHILDREN



NEVER

SWIM WHEN: ALONE, UNDER THE INFLUENCE OF DRUGS OR ALCOHOL, TIRED, ILL

NO: RUNNING, ROUGH HOUSING, SHARP OBJECTS OR GLASS.
UNAPPROVED ELECTRICAL APPLIANCES (INCLUDING TELEPHONE)

ALWAYS: CLOSELY SUPERVISE CHILDREN. THINK FIRST — ACT SAFELY & BE CONSIDERATE OF OTHERS

IN CASE OF NEED MOUTH TO MOUTH OR MANUAL ARTIFICIAL RESPIRATION SHOULD BE STARTED IMMEDIATELY AND SHOULD BE CONTINUED UNTIL A DOCTOR ARRIVES OR UNTIL THE MECHANICAL RESUSCITATORS ARE APPLIED. DO NOT REMOVE, ALTER, OR PAINT OVER.

**SIGN MUST BE SEEN BY ALL POOL USERS ENTERING POOL.
PERMANENTLY SECURE SIGN TO POOL.**

THIS SIGN HAS BEEN AFFIXED TO THE POOL WALL, FENCES, AND OTHER PARTS OF THE POOL STRUCTURE SO THAT THIS SIGN CAN BE CONSPICUOUSLY SEEN BY ALL POOL USERS ENTERING AND LEAVING THE POOL AREA DO NOT REMOVE, COVER OR PAINT OVER THIS SIGN FAILURE TO COMPLY WITH ALL SAFETY SIGNAGE AND ALL POOL SAFETY RULES MAY RESULT IN SERIOUS, PERMANENT BODY INJURY

ADVISORY VII

FACTORY AFFIXED LABELS



**THIS SAFETY SIGN HAS BEEN FACTORY AFFIXED AS
FOLLOWS ON POOLS WITH STEEL TOPRAILS:**

ROUND TOP RAILS

OVAL TOP RAILS

SIZE ROUND	TOPRAILS	SIZE OVAL	TOPRAILS	LONG TOPRAILS	TOTAL
12' DIA	2	1218	2	2	4
15' DIA	2	1221	2	2	4
18' DIA	2	1224	2	4	6
21' DIA	2	1524	2	2	4
24' DIA	2	1530	2	4	6
27' DIA	2	1833	2	4	6
30' DIA	3	1839	2	6	8

ADVISORY VIII

SAFETY TIPS FOR ALL POOL USERS

FOLLOW ALL BUILDING CODES AND STANDARDS AS THEY PERTAIN TO RESIDENTIAL POOLS. NEVER USE IMPROPERLY SIZED, INSTALLED OR MAINTAINED ACCESSORIES. BE SURE ALL SAFETY SIGNS AND DECALS ARE PROPERLY INSTALLED. CAREFULLY READ AND UNDERSTAND ALL SAFETY MATERIAL PROVIDED AND COMMUNICATE THIS INFORMATION TO ALL POOL USERS AND SUBSEQUENT OWNERS.

- ADULT SUPERVISION IS REQUIRED AT ALL TIMES
 - PROVIDE MEANS OF INGRESS AND EGRESS FROM POOL BY MEANS OF LADDERS/STAIRCASES/ STEPS ETC
 - ENFORCE ALL RULES
 - ALLOW NO DIVING
 - ALLOW NO JUMPING
 - ALLOW NO SLIDING
 - ALLOW ONLY COMPETENT SWIMMERS IN THE POOL
 - NO RUNNING OR HORSEPLAY
 - SUPERVISE CHILDREN CLOSELY. SEE THAT THEY LEARN TO SWIM.
 - NO ONE IS TO SWIM ALONE
 - NO ONE IS TO SWIM WHILE UNDER THE INFLUENCE OF EITHER ALCOHOL OR DRUGS
 - ONLY APPROVED OBJECTS IN OR AROUND THE POOL
 - NEVER ALLOW ANYONE TO ENDANGER HIMSELF OR OTHERS
 - SECURE THE POOL FROM UNAUTHORIZED USE (E.G. SELF LOCKING GATES)
 - REMOVE ALL COVERS OR SOLAR BLANKETS AND FLOATING FOUNTAINS COMPLETELY BEFORE USING THE POOL
 - READ ALL CHEMICAL INSTRUCTIONS AND FOLLOW THEM. PROPERLY MAINTAIN THE POOL AND SURROUNDING AREA.
- REGULARLY CHECK FOR:
- PROPER WATER LEVEL
 - CLEAR, CLEAN WATER (CHECK DAILY)
 - BOTTOM CLEAN
 - ALL ACCESSORIES IN PROPER CONDITION--NOTHING BROKEN OR LOOSE
 - DECKS ARE CLEAR TO AVOID TRIPPING OR FALLING ON DECK OR INTO POOL
 - NO GLASS OR SHARP OBJECTS
 - NO UNAPPROVED ELECTRICAL APPLIANCES (INCLUDING TELEPHONE)
 - FIRST AID KIT, SAFETY LINE, SAFETY HOOK, AND OTHER LIFE SAVING EQUIPMENT ARE AVAILABLE
 - SUCTION OUTLETS AND INLETS MUST CONFORM TO ANSI/APSP-7 2006 OR LATEST EDITION
 - SAFETY LINE IN PLACE (ROPE AND FLOAT)
 - SAFETY SIGNAGE IS AFFIXED AND IN GOOD ORDER OR REQUEST REPLACEMENT FROM MANUFACTURER
 - NEVER REMOVE OR OBSCURE SAFETY DECALS OR SIGNS
 - POST EMERGENCY LIST OF PHONE NUMBERS NEARBY
 - CHEMICALS ARE SAFELY AND PROPERLY STORED
 - GATES AND SELF LOCKING DEVICES ARE IN GOOD WORKING CONDITION
 - ENTRANCE LADDERS STAIRCASE LADDERS, STEPS, AND EXIT LADDERS, STAIRCASE LADDERS, AND STEPS ARE IN PROPER WORKING ORDER.
- IMPROPER USE OF THE POOL OR POOL ACCESSORIES MAY RESULT IN SERIOUS PERSONAL INJURY.

ADVISORY IX

MANUFACTURER'S RECOMMENDATIONS

1. DO NOT STAND OR WALK ON TOPRAILS. THE TOP RAILS ARE NOT DESIGNED FOR STANDING OR WALKING UPON. DO NOT USE TOPRAILS TO GAIN ENTRY OR EXIT FROM POOL. TOPRAIL SURFACES ARE NOT SLIP RESISTANT.
2. YOUR ABOVE GROUND POOL HAS A 52" HIGH WALL & OPERATES WITH A 46" DEPTH OF WATER. IT IS A SHALLOW WATER POOL--**DO NOT JUMP/DO NOT DIVE/DO NOT SLIDE.**
3. LAYER OF PROTECTION: DO NOT SIT AT GROUND LEVEL WHEN SUPERVISING BATHERS. 100% VISUAL CONTACT IS RECOMMENDED AT ALL TIMES.
4. MAKE SURE CLOSURE OF POOL WALLS ARE CORRECTLY MECHANICALLY JOINED AS DESCRIBED IN THE ASSEMBLY INSTRUCTIONS AS WELL AS ON THE POOL WALL CARTON AND ON THE LABEL AFFIXED TO THE POOL WALL.
5. WHEN PROVIDED AROUND ELEVATED POOL DECKS, DECK RAILS SHALL HAVE THE ENTIRE OUTSIDE PERIMETER PROTECTED BY A TOP FENCE RAIL WITH A MINIMUM HEIGHT OF 36" ABOVE THE DECK AND THE BOTTOM RAIL OPENING BETWEEN THE TOP RAIL OF THE POOL AND BOTTOM FENCE RAIL OF THE DECK ENCLOSURE SHALL NOT EXCEED FOUR INCHES (4") PASS THROUGH. OPENINGS SHALL NOT ALLOW PASSAGE OF A 4" (102MM) DIAMETER SPHERE. VERTICAL PICKETS OPENINGS SHALL NOT ALLOW PASSAGE OF A 4" (102MM) DIAMETER SPHERE.
6. ABOVE GROUND SWIMMING POOLS MUST BE PROTECTED BY A FENCE, WALL, OR ENCLOSURE OF DURABLE MATERIAL OF WHICH THE POOL MAY BE CONSTRUCTED OR ANY COMBINATION THEREOF. FENCE REQUIREMENTS MUST BE A MINIMUM OF 4 FEET ABOVE GROUND LEVEL. **ALL FENCE ENCLOSURE REQUIREMENTS MUST CONFORM TO THE LATEST PUBLISHED LOCAL BUILDING CONSTRUCTION CODES, SUCH AS BOCA, SBCCI, CABO, ICBO, NEW YORK STATE AND FEDERAL CPSC. ALL GATES OR ENCLOSURES MUST BE SELF CLOSING AND SELF LATCHING AND BE PROVIDED WITH HARDWARE FOR PERMANENT LOCKING WITH ALL LATCHES PLACED A MINIMUM OF 54 INCHES ABOVE THE UNDERLYING GROUND OR OTHERWISE MADE INACCESSIBLE FROM THE OUTSIDE, TO CHILDREN UNDER FIVE YEARS OF AGE.**
7. BASIC LIFESAVING EQUIPMENT INCLUDES ONE OR MORE OF THE FOLLOWING ITEMS BE ON HAND AT ALL TIMES.
 - 7A. A LIGHT, BUT STRONG POLE NOT LESS THAN 12' LONG WITH BLUNT ENDS.
 - 7B. A 1/4" DIAMETER THROWING ROPE AS LONG AS 1-1/2 TIMES THE MAXIMUM WIDTH OF THE POOL OR 50' WHICHEVER IS LESS WHICH HAS BEEN FIRMLY ATTACHED TO A RING BUOY COAST GUARD APPROVED WITH AN OUTSIDE DIAMETER OF APPROXIMATELY 15" OR SOME OTHER SIMILAR FLOTATION DEVICE.
8. **EMERGENCY TELEPHONE NUMBERS:** A SELECTED LIST OF EMERGENCY TELEPHONE NUMBERS OF THE FOLLOWING SHOULD BE CONSPICUOUSLY POSTED AND SHOULD BE KEPT AT HAND AT THE TELEPHONE NEAREST THE POOL.
 - 8A. NEAREST AVAILABLE POLICE, FIRE, AND OR RESCUE UNIT.
 - 8B. NEAREST AVAILABLE PHYSICIAN.
 - 8C. NEAREST AMBULANCE SERVICE.
 - 8D. NEAREST AVAILABLE HOSPITAL.

ADVISORY X

DEVELOP YOUR VOCABULARY* AROUND THE POOL

Acid- A liquid or dry chemical used to lower the pH and or alkalinity of swimming pool and spa water.

Algae- Microscopic- life organisms that contain chlorophyll.

Algaecide- (also Algicide) - Any chemical or material that kills Algae.

Alkali- A term applied to bases, it usually carbonates and hydroxides, which raise the pH and alkalinity when added to water. Opposite of acid.

Alkalinity- The amount of bicarbonate, carbonate or hydroxide compounds present in water solution. See also Total Alkalinity.

Ammonia- A chemical compound of hydrogen and nitrogen that combines with free chlorine in pools to form chloramines, or combined chlorine. It also combines with free bromine to form bromamines.

Available Chlorine- A term used in rating chlorine containing products as to their chlorine content, based on gas chlorine having 100% chlorine.

Backwashing- The process of cleansing the filter media and/or elements by reversing the flow of water through the filter.

Bacteria- Single-celled microorganisms of various forms, some of which cause infections or disease.

Base- A chemical with pH greater than 7 that neutralizes acids.

Base Demand- A measure of the amount of alkaline material required to raise pH to a predetermined level. This can be accomplished by use of a base demand test, whereby a standard base is added dropwise to the pH reading until the desired pH is reached.

Breakpoint Chlorination- The addition of a sufficient amount of chlorine to water to destroy the combined chlorine present. Normally the amount added is 10 times the combined chlorine.

Bromine (Br₂) - A chemical element that exists as a liquid in its elemental form or as a part of a chemical compound which is an oxidant and a biocidal agent used to disinfect pool or spa water.

Calcium Hypochlorite (Ca(OCl)₂)- A solid white form of inorganic chlorine found in both granular and tablet forms (65-75% available chlorine). Because it is an alkaline compound, it will raise the pH of pool and spa water.

Cartridge Filter- A filtering component made of fabric designed to remove suspended particles from water flowing through the filtering cartridge measured in square feet.

Caustic- Sodium hydroxide, lye: used in pools, an extremely high pH alkali; referring generally to high pH.

Chemical Feeder- A mechanical device for adding chemicals to pool or spa water

Chloramine- Compounds formed when chlorine combines with nitrogen containing compounds (e.g. perspiration, ammonia). These compounds can cause eye and skin irritation and have strong objectionable odors and very low sanitizing capability.

Chlorinator- A device used to add a chlorine disinfectant at a controllable rate. Chlorinators are designed for specific chlorine compounds and should only be used with the compounds the chlorinator was designed for.

Chlorine (Cl₂)- A chemical element that exists as a gas in its elemental form or as a part of a chemical compound which is an oxidant and a biocidal agent used in pool and spa water disinfection.

Chlorine Demand- amount of chlorine necessary to oxidize all organic matter present in pool water at any given moment or over a period of time.

Chlorine Residuals amount of available chlorine remaining in water after the chlorine demand has been satisfied.

Coagulant- A chemical either alum or a polymer, used in pools/spas for the purpose of clumping together fine particles into large particles. This allows easier separation of the solids from the water.

Combined Chlorine- the portion of total chlorine in chemical combination with ammonia, nitrogen and/or organic compounds; mostly comprised of chloramine.

Contaminant- Undesirable organic and inorganic, soluble and insoluble substances in water including microbiological organisms. Example: Dirt, body, oil, algae.

Cyanuric Acid- also called stabilizer- a chemical that helps reduce the loss of chlorine in water due to the ultraviolet rays of the sun.

ADVISORY X CONTINUED

Diatomaceous Earth Filter- A filter that utilizes a thin coating of diatomaceous earth (DE) over a porous fabric as its filter medium that must periodically be replaced

Diethylphenylene Diamine (DPD)- A reagent and test method that specifically measures bromine or free available and total chlorine; produces a series of colors from pale pink to dark red.

Disinfectant- A chemical used to kill undesirable or pathogenic bacteria

Dry Acid- A granular material, generally sodium bisulfate, used to lower total alkalinity and pH in water.

Filtration- Designed to clarify water retaining suspended particles and to make disinfection more efficient.

Free Available Chlorine- That portion of the total chlorine remaining in chlorinated water that is not combined with ammonia or nitrogen compounds and will react chemically with undesirable or pathogenic organisms. Free Available Chlorine is the most active disinfectant in the pool or spa water.

Halogen- Any of the active chemical elements fluorine, chlorine, bromine and iodine

Muriatic Acid (Hydrochloric Acid)- A dilute solution of Hydrochloric Acid used to lower pH and/or total alkalinity in pool and spa water used in a further diluted form to dissolve calcium when cleaning tiles, plaster, concrete.

Orthotodine (OTO)- A colorless reagent that reacts with chlorine or bromine to produce a series of yellow-to-orange colors which indicate the amount of chlorine or bromine in water. Measures only total chlorine. Because it is a suspected carcinogen and very acidic, use caution when handling this chemical.

Oxidizers- Products used to destroy organic waste

Parts Per Million (PPM)- The unit of measurement used in chemical testing which indicates the parts by weight in relation to one million parts by weight of water. 1 milligram per liter of water.

pH- A value expressing the relative acidity or basicity of a substance, such as water, as indicated by the hydrogen ion concentration. pH is expressed as a number on the scale of 0 to 14, 0 being most acidic, 1 to 7 being acidic, 7 being neutral, 7 to 14 being basic and 14 being most basic.

Reagents- The chemical agents or indicators used to test various aspects of water quality.

Residual- Usually refers to chlorine residual or amount of measurable chlorine after meeting the chlorine demand.

Sand Filter- A filter using sand or sand and gravel as filter media.

Scale- The precipitate that forms on surfaces in contact with water when the calcium hardness, pH or total alkalinity levels are too high.

Sequestering Agent- A chemical that when added to pool water keeps dissolved metals and minerals in solution.

Shock Treatment- The practice of adding significant amounts of an oxidizing chemical to water to destroy chloramines, ammonia, and nitrogenous and organic contaminants in water.

Sodium Bicarbonate (also Baking Soda)- A white powder used to raise total alkalinity in water. It is also sometimes used to raise pH in spas.

Sodium Bisulfate (also Dry Acid)- A granular solid used to lower pH and/or alkalinity in water.

Sodium Dichloro- (Sodium Dichloro-Isocyanurate)- An organic chlorine, granular in form, containing 56 - 62 % chlorine. It also contains 58.7 % stabilizer by weight and has a pH of 6.0.

Stabilizer- Also called Cyanuric Acid, isocyanuric acid, conditioner or triazinetrione-- A chemical that helps reduce the excess loss of chlorine in water due to the ultraviolet rays of the sun.

Superchlorination- The practice of adding a sufficient amount of a chlorination compound to water to destroy chlorine demand compounds and any combined chlorine which is present. Generally the amount of chlorine added is 10 times the concentration of combined chlorine.

Test kit- A device used to analyze specific chemical factors in pool/spa water.

Titration- A water test method whereby a reactant of standard concentration is added to a specific volume of sample in the presence of an indicator until a color change occurs to indicate the reaction is completed. Used for total alkalinity, hardness, chlorine or bromine testing in pool/spa water.

Total Alkalinity- A measure of the pH buffering capacity of water. Also Alkalinity.

Total Chlorine- The sum of both the free available and combined chlorines.

Total Dissolved Solids (TDS) - The measure of the total amount of dissolved solids in water.

Volume- Capacity; amount of water, expressed in gallons, that a pool will hold.

*These and additional definitions can be found in the "Glossary of Terms for ANSI/NSPI Standards"

ADVISORY XI

CHEMICAL OPERATIONAL PARAMETERS

These guidelines set forth the suggested operational parameters for the proper chemical treatment and maintenance of pools and spas. Applicable health department guidelines and label directions supersede these parameters.

Chemical treatment alone will not produce sanitary pool and spa water. A filtration system in proper operational condition is also required to attain clear and sanitary water.

Key

APSP-1 Public Inground Pools

APSP-5 Residential Inground Swimming Pools

APSP-2 Public Spas

APSP-6 Residential Portable Spas

APSP-3 Residential Permanent Spas

APSP-9 Aquatic Recreation Facilities

APSP-4 Residential Aboveground/Onground Pools

A. Sanitizer Levels				
1. Free Chlorine, ppm				
Standard	Minimum	Ideal	Maximum	Comments
APSP-1 APSP-4 APSP-5 APSP-9	1.0	2.0 – 4.0	- The U.S. EPA has established a maximum chlorine level of 4.0 ppm for re-entry of swimmers into the water. However, state or local health codes may allow or require the use of chlorine levels above 4.0 ppm.	Hot water/heavy use may require operation at or near maximum levels. <ul style="list-style-type: none"> ▪ Test kits are available for a variety of free chlorine ranges. ▪ Free chlorine test color (DPD) may be completely or partially bleached by chlorine levels greater than 5 ppm to give a false low reading. For appropriate test kit, consult pool professional or test kit manufacturer. Regular oxidation is recommended and remedial practices may be necessary.
APSP-2 APSP-3 APSP-6	2.0	3.0 – 4.0	-	Public Spas and Swims spas: During hours of operation, test the water hourly, record results, maintain the ideal range continually and shock treat at the end of the daily use period.

(Continued)

Standard	Minimum	Ideal	Maximum	Comments
Free Chlorine - continued				
			The U.S. EPA has established a maximum chlorine level of 4.0 ppm for re-entry of swimmers into the water. However, state or local health codes may allow or require the use of chlorine levels above 4.0 ppm.	Residential Spas and Swimspas: Maintain these levels continually during hours of operation. Test water before use. During extended use test water hourly. Shock treat water after use.
Combined Chlorine, ppm (High combined chlorine results in reduced sanitizer efficacy. Take remedial action to reduce combined chlorine.)				
APSP-1 APSP-3 APSP-4 APSP-5 APSP-6 APSP-9	0	0	0.2	Signs of combined chlorine: Sharp chlorine-like odor and eye irritation (e.g., mucous membrane).
APSP-2	0	0	0.5	
2. Total Bromine, ppm				
Note: Refer to manufacturer's product label for specific use concentrations. Use concentrations vary between different types of brominating compounds.				
APSP-1 APSP-4 APSP-5 APSP-9	1.0	2.0 – 3.0 Residential Pools 3.0 - 4.0 Public Pools	5.0	<ul style="list-style-type: none"> Hot water/heavy use may require operation at or near maximum levels. Public swimming pools require maintenance of higher Total Bromine residuals than residential pools. Regular oxidation is recommended.
APSP-2 APSP-3 APSP-6	2.0	2.0 – 4.0 Residential Spas & Swimspas 4.0 – 6.0 Public Spas & Swimspas	6.0	<p>Residential: During hours of operation, maintain these levels continually. Test water before use. During extended use test water hourly. Shock treat water after use.</p> <p>Public: During hours of operation, maintain the ideal range continually. Test the water hourly and record results. Shock treat water after use.</p>

Standard	Minimum	Ideal	Maximum	Comments
3. PHMB (polyhexamethylene biguanide), ppm as product				
All facilities	30	30 – 50	50	<p>Certain classes of pool chemicals or treatment processes are incompatible with PHMB sanitizer. The pool or spa owner should consult with the supplier of PHMB if there is any question about compatibility of an auxiliary chemical or process. These include, but are not limited to:</p> <ul style="list-style-type: none"> • Chlorine/bromine sanitizers • Copper-based algicides • Monopersulfate (peroxymonosulfate) oxidizers • Phosphate-based chelators and detergents • Electrolytic chlorinators • Copper/Silver ionizers <p>When used with ozone, follow manufacturer's directions.</p> <p>Consult pool professional or test kit manufacturer for appropriate test kit.</p> <p>Regular oxidation is recommended.</p>
B. Chemical Values				
1. pH				
All facilities	7.2	7.4 – 7.6	7.8	<p>Operating pH at the minimum level requires alkalinity and hardness to be operated at a higher level. At maximum pH, calcium hardness and total alkalinity may have to be adjusted downward to maintain proper water balance. (See "saturation index" in Glossary.)</p> <p>If pH is too high:</p> <ul style="list-style-type: none"> • Low chlorine efficacy • Scale formation • Cloudy water • Eye discomfort <p>If pH is too low:</p> <ul style="list-style-type: none"> • Rapid dissipation of sanitizer • Plaster and concrete etching • Eye discomfort • Corrosion of metals • Vinyl liner wrinkling

Standard	Minimum	Ideal	Maximum	Comments
2. Total Alkalinity (Buffering) ppm as CaCO₃				
All facilities	60	<u>80 – 100</u> For calcium hypochlorite, lithium hypochlorite and sodium hypochlorite <u>100 – 120</u> For sodium dichlor, trichlor, chlorine gas and bromine compounds	180	If total alkalinity is too low: <ul style="list-style-type: none"> • pH bounce • Corrosion tendency If total alkalinity is too high: <ul style="list-style-type: none"> • Cloudy water • Increased scaling potential • pH tends to be too high These values are based on the carbonate alkalinity.
3. Total Dissolved Solids (TDS)				
All facilities	NA	NA	1500 ppm greater than TDS at pool or spa start-up. (Start-up TDS includes source water TDS and any other inorganic salt added at start-up.)	An increase in TDS may indicate an accumulation of impurities during the course of operation. Excessively high TDS may lead to hazy water and scale formation, corrosion of fixtures, and may inhibit sanitation. TDS can be reduced by partial draining and addition of fresh water. For Spas: TDS should be periodically reduced by draining. (See Section K, Water Replacement Procedure)
4. Calcium Hardness, ppm, as CaCO₃				
APSP-1 APSP-4 APSP-5 APSP-9	150	200 – 400	1000	Lower alkalinity and lower pH must be used with hardness over 500 ppm.
APSP-2 APSP-3 APSP-6	100	150 – 250	800	
5. Heavy Metals				
All facilities	NA	NA		If excessive heavy metals (such as copper, iron and manganese) are present: <ul style="list-style-type: none"> • Staining may occur • Water may discolor • Filter cycle may decrease and require more frequent back-washing • May indicate pH too low, corrosion, etc.

Standard	Minimum	Ideal	Maximum	Comments
C. Biological Values (Maintaining adequate sanitizer levels is critical to prevent growth of algae and bacteria)				
1. Visible Algae				
All facilities	None visible	None visible	None visible	If algae growth is observed recommendations may include but are not limited to: <ul style="list-style-type: none"> • Superchlorinate the pool or spa. • Use an EPA-registered algicide according to label directions. • Supplement with brushing and vacuuming. Some algicides may cause foaming.
2. Bacteria				
All facilities	None	None	Refer to local code	Public Facilities: If bacteria count exceeds local health department requirements, superchlorinate and follow proper maintenance procedures. Residential Facilities: Maintain proper sanitizer level and pH to control bacteria.
D. Stabilizer (when used)				
1. Cyanuric Acid, ppm				
All facilities	10	30 – 50	150	If stabilizer is too low: Chlorine residual is rapidly destroyed by sunlight. If stabilizer is too high: May reduce chlorine efficacy to algae. NOTE: Since less sunlight is found in indoor pools, the benefit of stabilizers is less important. Cyanuric acid does not stabilize bromine sanitizers.
E. Oxidation (Regular oxidation is recommended for pools and spas with normal bather load as a preventive treatment)				
1. Chlorine Products				
APSP-1 APSP-4 APSP-5 APSP-9	As needed	Weekly	Determined by bather load, weather conditions	Some high-use pools may require oxidation several times per week. Regular oxidation is recommended to prevent the build-up of contaminants, maximize sanitizer efficiency, minimize combined chlorine and improve water clarity. Chlorine should not be used to oxidize a pool or spa sanitized by PHMB.
APSP-2 APSP-3 APSP-6		At the end of each day facility is used.		

Standard	Minimum	Ideal	Maximum	Comments
2. Potassium Monopersulfate				
APSP-1 APSP-4 APSP-5 APSP-9	As needed	Weekly	Determined by bather load, weather conditions, etc.	Some high-use pools may require oxidation several times per week. Regular oxidation is recommended to prevent the build-up of contaminants, maximize sanitizer efficiency, minimize combined chlorine and improve water clarity. Potassium monopersulfate will measure as combined available chlorine in DPD test system.
APSP-2 APSP-3 APSP-6		At the end of each day facility is used		Refer to test kit manufacturer's directions. Potassium monopersulfate should not be used to oxidize a pool or spa sanitized by PHMB.
3. Hydrogen Peroxide				
All facilities	Monthly	As needed	Determined by bather load, weather conditions, etc.	Hydrogen peroxide should be used only with PHMB sanitizers. Hydrogen peroxide should not be used as an oxidizer for pools and spas sanitized by chlorine or bromine.
4. Chlorine Dioxide				
APSP-1 APSP-4 APSP-5	As needed	3-4 weeks	Determined by occurrence of biofilms in skimmer or plumbing or by abrupt disappearance of hydrogen peroxide.	Chlorine dioxide may be used to kill bacterial biofilm or fungal biofilm growing in the plumbing in PHMB-treated pools. Follow EPA label directions.
F. Remedial Practices				
1. Superchlorination				
All facilities				Follow label directions. Use a registered chlorine sanitizer. Do not re-enter pool or spa until water meets the prescribed values in Section A. Do not superchlorinate a pool or spa treated by PHMB. <i>(Continued)</i>

Standard	Minimum	Ideal	Maximum	Comments
Superchlorination – continued				
All facilities				<p>Some symptoms that may indicate a need for superchlorination are:</p> <ul style="list-style-type: none"> • Cloudy water • Slime formation • Musty odors • Difficulty in maintaining a sanitizer residual • Algae and/or high bacteria counts
2. Superchlorination to establish breakpoint, dosage in ppm				
APSP-1 APSP-2 APSP-4 APSP-5 APSP-9	At least 10 times combined chlorine			<p>High dosage may be required to satisfy chlorine demand. If combined chlorine persists, water replacement should be considered.</p> <p>If a pool or spa is treated with PHMB, do not superchlorinate to establish breakpoint.</p>
3. Shock Treatment				
All facilities				<p>Some conditions that may indicate a need for shock treatment are:</p> <ul style="list-style-type: none"> • Cloudy water • Difficulty in maintaining a sanitizer residual • Periods after heavy bather use • Adverse weather. <p>Non-chlorine shocks are not sanitizers. They are effective in oxidizing organic contaminants. If the purpose of shock treatment is to treat bacteria or visible algae, an EPA-registered product for that use should be used; follow label directions.</p> <p>Spas should be shock treated on a daily basis when used.</p>
4. Chlorine Dioxide				
		As needed	Determined by occurrence of biofilms in skimmer or plumbing or by abrupt disappearance of hydrogen peroxide.	<p>White or pink-colored biofilms can infest the plumbing of PHMB pools and eventually spread onto pool surfaces. On other occasions, the biofilms will be hidden from view, but will cause a rapid decrease in hydrogen peroxide. Chlorine dioxide kills the peroxide-degrading organisms but should only be used to treat the plumbing and not the pool itself.</p> <p>Follow label directions.</p>

Standard	Minimum	Ideal	Maximum	Comments
5. Clarification/Flocculation				
All facilities		As needed		Follow manufacturer's directions.
6. Algicides				
All facilities		As needed		Use U.S. EPA-registered products. Follow manufacturer's directions. Use of some algicides may cause foaming.
7. Foam Control				
All facilities		As needed		Foam may harbor persistent microorganisms. If foaming is not adequately controlled, consider daily shock treatment, water replacement, or an appropriate anti-foam agent. Follow manufacturer's directions.
G. Temperature				
All facilities	Personal preference	For pools: 78 °F – 82 °F For Spas: Personal preference For swimspas 78° F – 82° F	104 °F	If temperature is too low: <ul style="list-style-type: none"> • Bather discomfort If temperature is too high: <ul style="list-style-type: none"> • Excessive fuel requirement • Increased evaporation • Bather discomfort • Increased scaling potential • Increased use of sanitizers Overexposure to hot water may cause nausea, dizziness, and fainting.
H. Water Clarity				
All facilities	The deepest part of the pool or spa and/or main drain shall be visible and sharply defined.			If water is turbid: <ul style="list-style-type: none"> • Sanitizer level may be low • Filtration/circulation system may require maintenance • Improper chemical balance (Section B) • Consult remedial practices (Section F)

I. Ozone				
Standard	Minimum	Ideal	Maximum	Comments
All facilities Concentration in air above pool or spa water, ppm			0.1 over 8-hour time-weighted average. See OSHA standard	<ul style="list-style-type: none"> Serves as oxidizer of water contaminants. Must be used with an EPA-registered sanitizer. Indoor installations should have adequate ventilation
J. Oxidation Reduction Potential (ORP)				
APSP-1 APSP-2 APSP-9	650 MV			<p>When chlorine or bromine is used as the primary sanitizer, ORP is commonly used to control sanitizer feed. The use of ORP controllers does not eliminate or supersede the need for testing the sanitizer level with standard test kits. For PHMB-treated pools, levels for ORP values are not applicable.</p> <p>ORP reading may be affected by a number of factors including, but not limited to, pH, probe condition, cyanuric acid, sanitizer type, and supplemental oxidizers.</p> <p>Follow manufacturer's recommendations.</p>
K. Water Replacement				
APSP-2 APSP-3 APSP-6	Water in spas /hot tubs that have high bather use requires partial or complete replacement of water periodically.	Water in spas /hot tubs that have high bather use requires complete replacement of water per the replacement guidelines below.		<p>Water replacement is necessary to dilute dissolved solids, to maintain water clarity, and to do necessary routine maintenance.</p> <p>Frequent water replacement is required to control TDS buildup from bathers and treatment chemicals:</p> <p>Residential: Drain and refill every three months with average use. More frequent water replacement is required for heavy use.</p> <p>Public: More frequent water replacement is required due to heavier bather loads.</p>

ADVISORY XII

SAFETY CHECK LIST

NIGHT SWIMMING

... can be fun ... but your pool is designed for daytime swimming only. This means that your deck and pool lighting must provide for easy reading of the safety signs, “**DANGER**” and “**WARNING**”, at night. You **must** be able to see a swimmer in trouble! If you intend to use the pool area at night, consult with a local lighting specialist for area lighting requirements.

STAY “BONE DRY”

... when you touch the pool filter or pump electrical parts make sure the ground under your feet is “**BONE DRY**”

AVOID SEVERE ELECTRICAL SHOCK

... can result if you install your pool pump or filter on a deck. They can 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 rail of the pool.

MAINTAIN A CLEAR ZONE

... by climbing up on the pool pump or filter unit is not the way to success! Do not allow children or anyone to climb or stand on these units. Maintain a clear zone 4' to 6' away from the pool wall to deter climbing onto accessories and gaining access to the above ground/onground swimming pool.

CAUTION

Connect all power cords to a 3 wire grounding-type outlet only. Use a ground fault interrupter (GFCI). Use only original equipment manufactured replacement parts. Please read your owners guide for more details about safely operating your filter and pump.

WARNING

Never allow diving, sliding or jumping from the **Top Rails, Decking or any other Top Surface**. Running or horseplay can cause serious injury due to Slipping or Falling on the deck or into the Pool. No one should Sit, Lean, or Stand on Deck Rails or Fence Rails. The Deck must have a slip resistant surface, such as synthetic turf, 5 ply outdoor carpeting or a similar textured surface. Decks must be fabricated of non-toxic materials. Sitting, standing, or reclining on decks containing toxic materials can cause irritation to body parts.

Contact dealers for material or color selections, etc. Install a Deck In Pool Ladder for entry and another Staircase Ladder to exit from the pool.

Keep the Deck clean/clear of objects someone could step on or trip over, resulting in injury.

Check regularly for signs of wear or loose bolts that could make the Deck a safety risk. Follow local building codes for deck construction and “**Child Proofing**” access to the pool.

ADVISORY XII (CONTINUED)

SAFETY CHECK LIST

LADDER SAFETY TIPS

Follow the manufacturer's instructions for installation. Face the Ladder going up or down. Instruct all pool users about the proper use of the In Pool Ladders and Staircases (Stairs). Allow only one person at a time on the Ladder. **Never allow anyone to Dive or Jump from the Ladder Steps or the Ladder Platform.** Check all nuts and bolts regularly to make sure the Ladder stays safe and sturdy. Make sure that your "A-Frame" Ladder, In Pool Ladder, and Staircase Ladder to decks are **sized properly to fit 52" high wall pools and 52" high decks.**

PROTECT CHILDREN

Protect children from drowning! . . . lock the Ladder in the "swing up" position if the ladder is designed with this feature. If you cannot lock your Ladder this way, remove it from the pool when the pool is not in use. **This is a mandatory safety rule!**

POOL ENTRY ENCLOSURE SYSTEMS

There are new state of the art **POOL ENTRY ENCLOSURE SYSTEMS** available to totally enclose the ladder access to the pool, denying entry to children under 5 years of age. Consult your local dealer or direct your inquiry direct to the manufacturer of the pool or ladder.

AN UNATTENDED POOL IS A CAPTIVATING MAGNET FOR TODDLERS AND YOUNG CHILDREN! REMEMBER, LOCKED EXTERIOR FENCING AROUND ALL FOUR SIDES OF THE POOL IS

STRONGLY RECOMMENDED

"THERE IS NO SUBSTITUTE FOR ADULT SUPERVISION"

ADVISORY XIII

PERIMETER POOL DECKS AND FENCING REQUIREMENTS

Deck Safety Sign & Warnings

The deck package **shall** have affixed at the point of entry “**DO NOT DIVE, SLIDE OR JUMP**” safety signs in accordance with the **ANSI Z 535.4** standard specifications.

52” Walkaround decks --- Minimum Width 18”, Maximum Deck Height 52”

Walkaround (patio) decks, for 52” high pools, **shall** be a minimum of **eighteen inches (18”)** wide, measured from the inside of the pool to the outside of the pool walkaround. DECK HEIGHT SHALL BE AT MOST FOUR FEET TWO INCHES (52”) IN HEIGHT WITH A MAXIMUM VERTICAL CLEARANCE TO A GRADE OF TWO INCHES (2”).

Secure Access Ladders & Steps

Above ground/onground swimming pools with at least 52” between the pool top rail, pool deck or top of the pool fence and adjoining grade **shall** have the proper 52” high access ladder or staircase steps **secured** to prevent access when not intended to be used in accordance **ANSI/IAF-8 Model Barrier Code 2005 OR LATEST REVISIONS.**

Fence Top Rail --- Minimum Vertical Distance 36”

If the access to the pool Top Rail, Pool Deck or Pool Fence and adjoining grade is less than **forty-eight inches (48”)** barrier requirements **shall** be provided by the pool owner. This instruction manual is included in the instruction manual to the pool owner (**Consult local area building codes**)

Barrier Fence Protection

Above ground/onground swimming pools other than above **shall** be protected by a **Barrier** (fence, wall, enclosure, etc.) of durable material of which the pool may be constructed or any combination thereof in accordance with **ANSI/IAF-8 Model Barrier Code 2005 OR LATEST REVISIONS.**

Barrier Fence Height

Barrier fence height shall be at least **four feet (48”)** in height with a maximum vertical clearance to a grade of **two inches (2”)**

FOR OTHER MANUFACTURER’S ADD-ON-PRODUCTS THAT ARE ADDED TO OUR LINE OF ABOVE GROUND/ONGROUND POOLS, THEY SHALL BE MANUFACTURED IN ACCORDANCE WITH THE VOLUNTARY STANDARDS, ANSI/NSPI-4 DATED 1999 OR LATEST REVISIONS AND MODEL BARRIER CODE FOR RESIDENTIAL SWIMMING POOLS, SPAS, AND HOT TUBS ANSI/IAF-8 2005 OR LATEST REVISIONS.

ADVISORY XIV

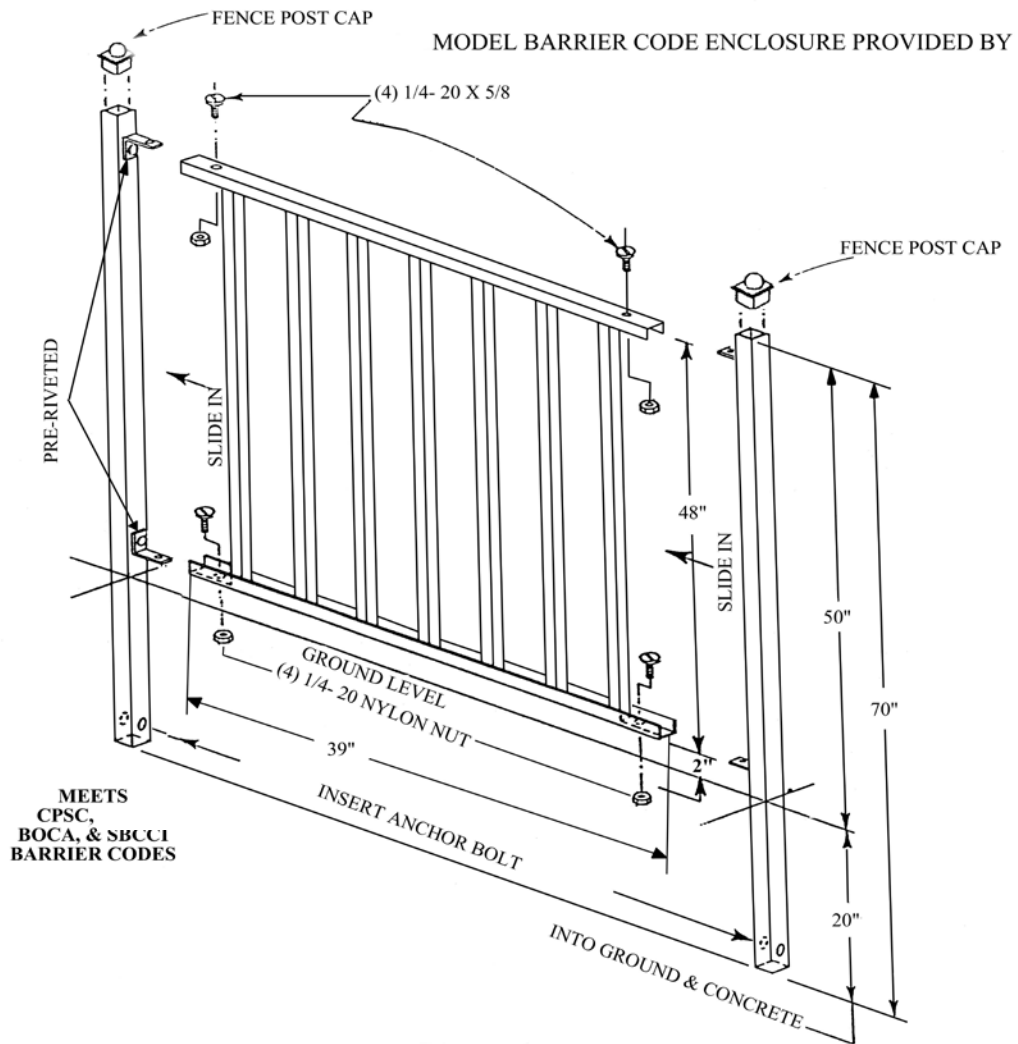
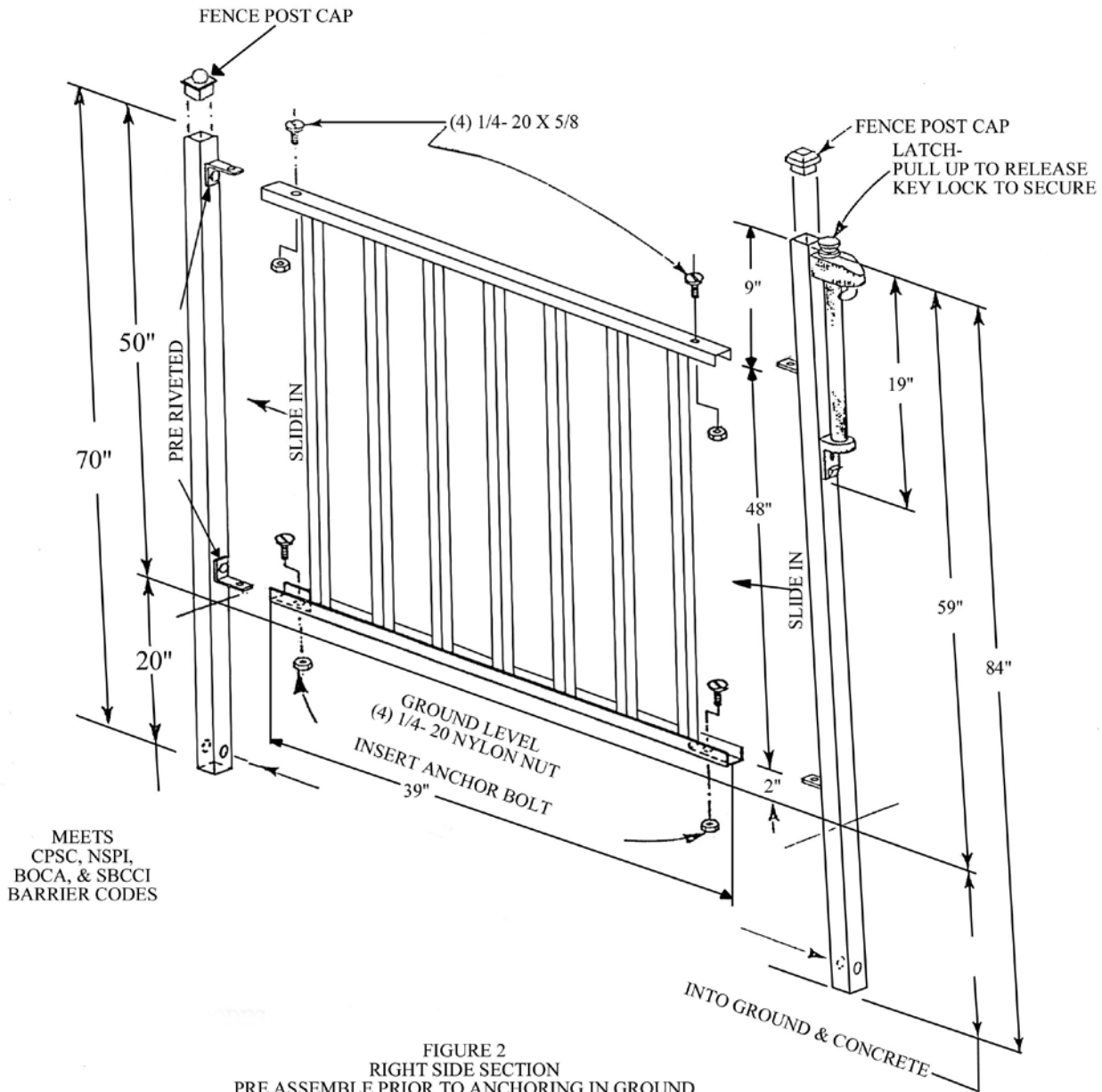


FIGURE 1
LEFT SIDE SECTION
PRE ASSEMBLY PRIOR TO ANCHORING IN GROUND
LEVEL RAIL & MAINTAIN 2" (MAX) GROUND CLEARANCE

ENCLOSURE FOR OUTDOOR PRIVATE SWIMMING

ADVISORY XIV CONTINUED



MEETS
CPSC, NSPI,
BOCA, & SBCCI
BARRIER CODES

FIGURE 2
RIGHT SIDE SECTION
PRE ASSEMBLE PRIOR TO ANCHORING IN GROUND
LEVEL RAIL & MAINTAIN 2" (MAX) GROUND CLEARANCE

MODEL BARRIER CODE ENCLOSURE
AQUASPORTS POOLS, LLC.
732-247-6134

ADVISORY XIV CONTINUED

LATCH RELEASE 59"

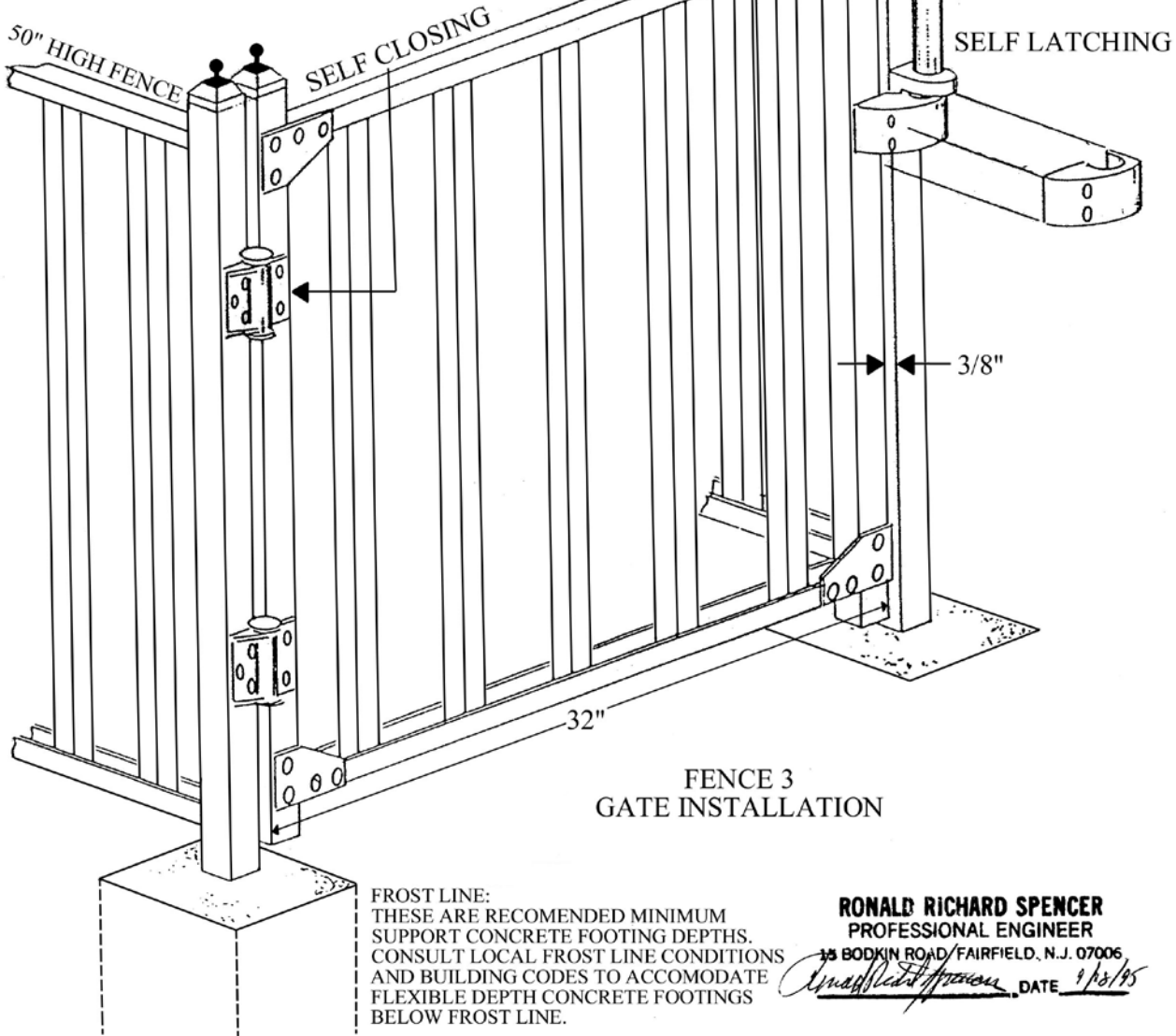
ENCLOSURE FOR OUTDOOR PRIVATE SWIMMING POOL

MEETS
CPSC, NSPI,
BOCA, & SBCCI
BARRIER CODES

BOCA 421.10.5 SPACING BETWEEN
THE VERTICAL MEMBERS SHALL
NOT EXCEED 4" (102 MM.)

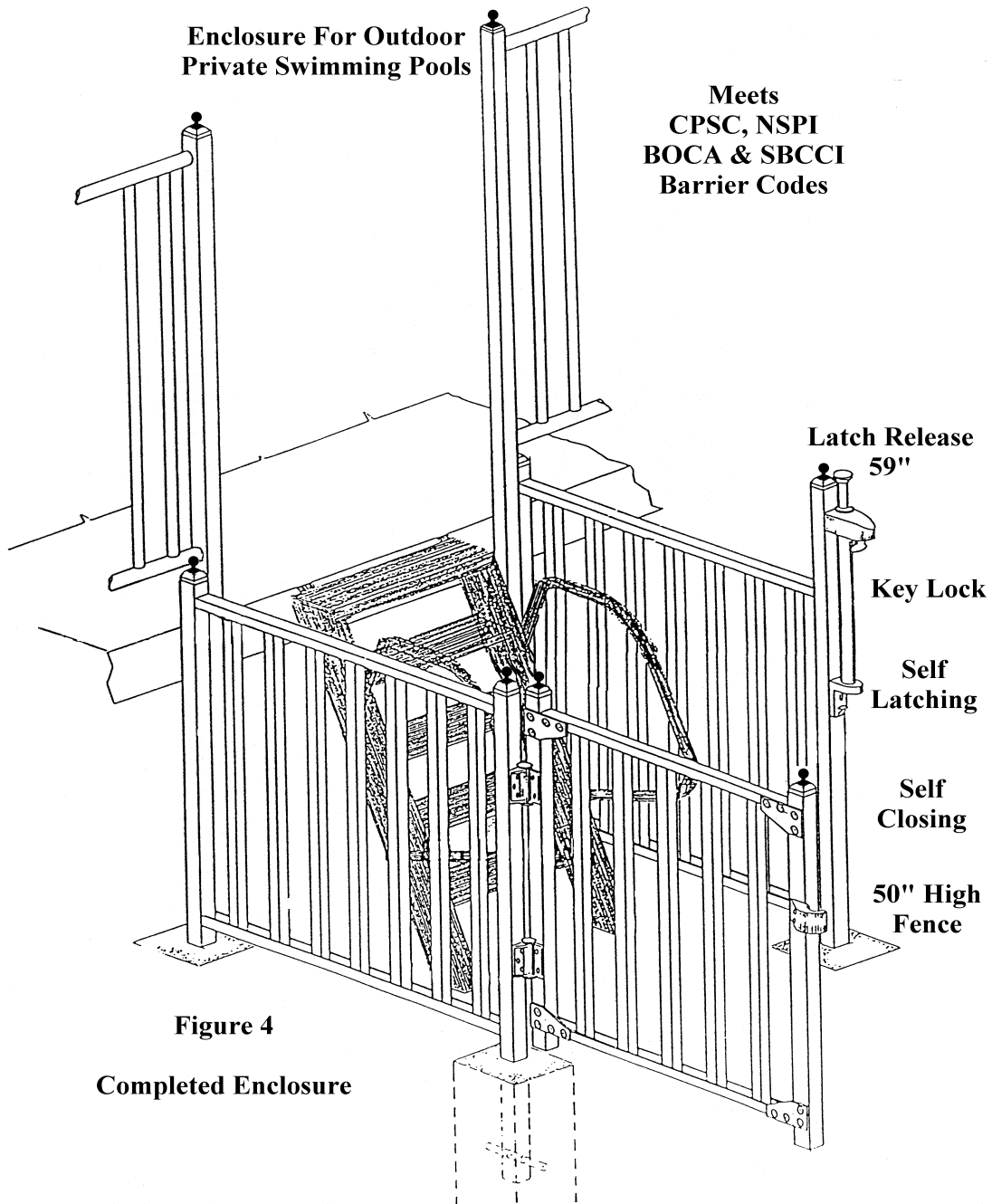
KEY LOCK

SELF LATCHING



**MODEL BARRIER CODE ENCLOSURE PROVIDED BY
AQUASPORTS, POOLS, LLC
732-247-6134**

ADVISORY XIV CONTINUED



**MODEL BARRIER CODE ENCLOSURE PROVIDED BY
AQUASPORTS POOLS, LLC.
732-247-6134**

ADVISORY XIV CONTINUED

* Requires Fourth Side Fence Enclosure Under The Deck To Secure Open Under Of Ladder

* Not Illustrated

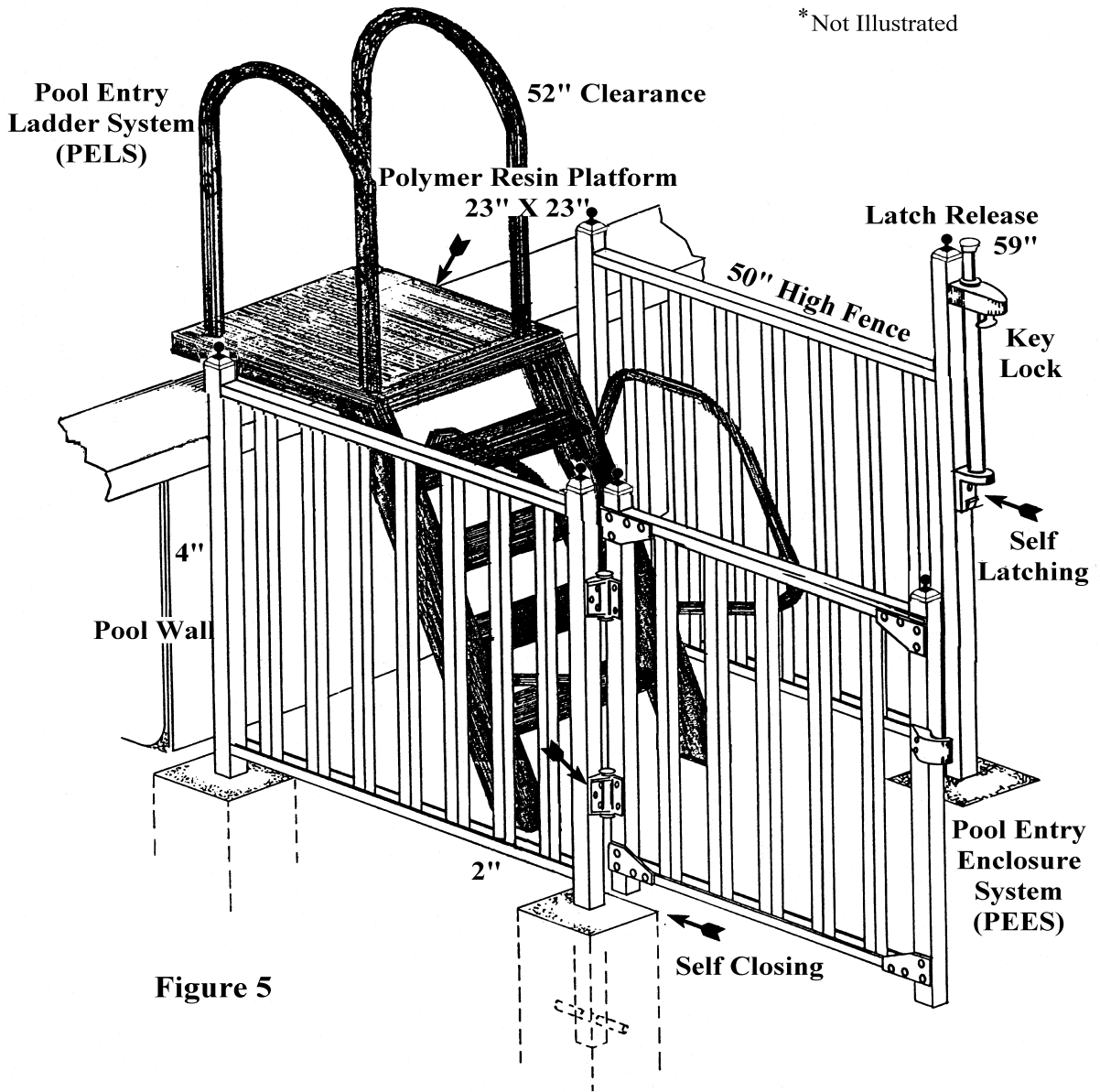


Figure 5

Model Barrier Code Enclosure

MODEL BARRIER CODE ENCLOSURE PROVIDED BY
AQUASPORTS POOLS, LLC. 732-247-6134

ADVISORY XV

BOCA EXCERPTS

THE BOCA NATIONAL BUILDING CODE/1993 . . .OR LATEST REVISIONS, BOCA (PAGE 48-50) SPECIAL USE AND OCCUPANCY (continued):

THE BOCA (BUILDING OFFICIALS CODE OF AMERICA) CONSTRUCTION CODE HAS BEEN RELEASED. MANY JURISDICTIONS, LOCAL, MUNICIPAL, AND STATE HAVE ADOPTED THIS CODE. THE IMPLEMENTATION OF THIS CODE HAS CREATED A NUMBER OF MISUNDERSTANDINGS. WE WOULD LIKE TO HIGHLIGHT THE CODE FOR CLARITY. WE PRESENT FOR YOUR INFORMATION AND USE EXCERPTS TAKEN FROM THE BOCA CODE DATED 1993 AS FOLLOWS:

421.2 DEFINITIONS.....(SEE PAGE 48)

PRIVATE SWIMMING POOL: ANY STRUCTURE THAT CONTAINS WATER OVER TWENTY-FOUR INCHES (610mm) IN DEPTH AND WHICH IS USED, OR INTENDED TO BE USED, FOR SWIMMING AND RECREATIONAL BATHING IN CONNECTION WITH AN OCCUPANCY IN USE GROUP R-3 AND WHICH IS ONLY AVAILABLE TO THE FAMILY AND GUESTS OF THE HOUSEHOLDER. THIS INCLUDES INGROUND, ABOVE GROUND, ON GROUND SWIMMING POOLS, HOT TUBS AND SPAS.

PRIVATE SWIMMING POOL INDOORS: ANY PRIVATE SWIMMING POOL THAT IS TOTALLY CONTAINED WITHIN A PRIVATE STRUCTURE AND SURROUNDED ON ALL FOUR SIDES BY WALLS OF SAID STRUCTURE.

PRIVATE SWIMMING POOL OUTDOORS: ANY PRIVATE SWIMMING POOL THAT IS NOT AN INDOOR POOL.

PUBLIC SWIMMING POOL: ANY SWIMMING POOL OTHER THAN A PRIVATE SWIMMING POOL.

SPA: SEE DEFINITION OF PRIVATE SWIMMING POOL.

421.10 ENCLOSURES FOR PRIVATE POOLS, SPAS, AND HOT TUBS. (PAGE 49). PRIVATE SWIMMING POOLS, SPAS, AND HOT TUBS SHALL BE ENCLOSED IN ACCORDANCE WITH SECTIONS **421.10.1** THROUGH **421.10.4** OR BY OTHER APPROVED BARRIERS.

421.10.1 OUTDOOR PRIVATE SWIMMING POOLS: AN OUTDOOR PRIVATE SWIMMING POOL, INCLUDING AN INGROUND, ABOVE GROUND OR ONGROUND POOL, HOT TUB OR SPA SHALL BE PROVIDED WITH A BARRIER WHICH SHALL COMPLY WITH THE FOLLOWING:

1. THE TOP OF THE BARRIER SHALL BE AT LEAST 48 INCHES (1219mm) ABOVE FINISHED GROUND LEVEL MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL. THE MAXIMUM VERTICAL CLEARANCE BETWEEN FINISHED GROUND LEVEL AND THE BARRIER SHALL BE 2 INCHES (51mm) MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL. WHERE THE TOP OF THE POOL STRUCTURE IS ABOVE FINISHED GROUND LEVEL AS AN ABOVE GROUND POOL, THE POOL STRUCTURE, OR SHALL BE MOUNTED ON TOP OF THE POOL STRUCTURE. WHERE THE BARRIER IS MOUNTED ON TOP OF THE POOL, THE MAXIMUM VERTICAL CLEARANCE BETWEEN THE TOP OF THE POOL STRUCTURE AND THE BOTTOM OF THE BARRIER SHALL BE 4 INCHES (102mm).

ADVISORY XV

BOCA EXCERPTS (CONT'D)

2. OPENINGS IN THE BARRIER SHALL NOT ALLOW PASSAGE OF A 4 INCH (102mm) DIAMETER SPHERE.....(PAGE 50)
3. SOLID BARRIERS SHALL NOT CONTAIN INDENTATIONS OR PROTRUSIONS EXCEPT FOR NORMAL CONSTRUCTION TOLERANCES AND TOOL MASONRY JOINTS.
4. WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THIS IS BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS LESS THAN 45 INCHES (1143mm), THE HORIZONTAL MEMBERS SHALL BE LOCATED ON THE SWIMMING POOL SIDE OF THE FENCE. SPACING BETWEEN THE VERTICAL MEMBERS SHALL NOT EXCEED 1-3/4 INCHES (44mm) IN WIDTH.
5. WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS 45 INCHES (1143mm) OR MORE, SPACING BETWEEN THE VERTICAL MEMBERS SHALL NOT EXCEED 4 INCHES (102mm). DECORATIVE CUT OUTS SHALL NOT EXCEED 1-3/4 INCHES (44mm) IN WIDTH.
6. MAXIMUM MESH SIZE FOR CHAIN LINK FENCE SHALL BE 1-3/4 INCHES (44mm) SQUARE UNLESS THE FENCE IS PROVIDED WITH SLATS FASTENED AT THE TOP OR BOTTOM WHICH REDUCE THE OPENINGS TO 1-3/4 INCHES (44mm).
7. WHERE THE BARRIER IS COMPOSED OF DIAGONAL MEMBERS SUCH AS A LATTICE FENCE, THE MAXIMUM OPENING FORMED BY THE DIAGONAL MEMBERS SHALL NOT BE MORE THAN 1-3/4 INCHES (44mm).
8. ACCESS GATES SHALL NOT COMPLY WITH THE REQUIREMENTS OF ITEMS 1 THROUGH 7 OF SECTION 421.10.1 AND SHALL BE EQUIPPED TO ACCOMMODATE A LOCKING DEVICE. PEDESTRIAN ACCESS GATES SHALL OPEN OUTWARDS AWAY FROM THE POOL AND SHALL BE SELF CLOSING AND HAVE A SELF LATCHING DEVICE. GATES OTHER THAN PEDESTRIAN ACCESS GATES SHALL HAVE A SELF LATCHING DEVICE. WHERE THE RELEASE MECHANISM OF THE LATCHING DEVICE IS LOCATED LESS THAN 54 INCHES (1372mm) FROM THE BOTTOM OF THE GATE: (a) THE RELEASE MECHANISM SHALL BE LOCATED ON THE POOL SIDE OF THE GATE AT LEAST 3 INCHES (76mm) BELOW THE TOP OF THE GATE; (b) THE GATE AND BARRIER SHALL NOT HAVE AN OPENING GREATER THAN 1/2 INCH (13mm) WITHIN 18 INCHES (457mm) OF THE RELEASE MECHANISM.

ADVISORY XV

BOCA EXCERPTS (CONT'D)

9. WHERE THE WALL OF A DWELLING SERVES AS PART OF THE BARRIER ONE OF THE FOLLOWING SHALL APPLY
- 9.1 WALL DOORS WITH DIRECT ACCESS TO THE POOL THROUGH THAT WALL SHALL BE EQUIPPED WITH AN ALARM WHICH PRODUCES AN AUDIBLE WARNING WHEN THE DOOR AND ITS SCREEN, IF PRESENT ARE OPENED. THE ALARM SHALL SOUND FOR A MINIMUM OF 30 SECONDS IMMEDIATELY AFTER THE DOOR IS OPENED. THE ALARM SHALL HAVE A MINIMUM SOUND PRESSURE OF 85 dBA AT 10 FEET (3048mm) AND THE SOUND OF THE ALARM SHALL BE DISTINCTIVE OF OTHER HOUSEHOLD SOUNDS SUCH AS SMOKE ALARMS, TELEPHONES AND DOORBELLS. THE ALARM SHALL AUTOMATICALLY RESET UNDER ALL CONDITIONS. THE ALARM SHALL BE EQUIPPED WITH MANUAL MEANS, SUCH AS TOUCH PADS OR SWITCHES TO DEACTIVATE TEMPORARILY FOR A SINGLE OPENING FROM EITHER DIRECTION. SUCH DEACTIVATION SHALL LAST FOR NO MORE THAN 15 SECONDS. THE DEACTIVATION TOUCH PADS OR SWITCHES SHALL BE AT LEAST 54 INCHES (1372mm) ABOVE THE THRESHOLD OF THE DOOR.
- 9.2 THE POOL SHALL BE EQUIPPED WITH AN APPROVED POWER SAFETY COVER.
10. WHERE AN ABOVE GROUND POOL STRUCTURE IS USED AS A BARRIER OR WHERE THE BARRIER IS MOUNTED ON TOP OF THE BARRIER AND THE MEANS OF ACCESS IS A FIXED OR REMOVABLE LADDER OR STEPS, THE LADDER OR STEPS SHALL BE SURROUNDED BY A BARRIER WHICH MEETS THE REQUIREMENTS OF ITEMS ONE THROUGH NINE OF SECTION **421.10.1**. A REMOVABLE LADDER SHALL NOT CONSTITUTE AN ACCEPTABLE ALTERNATIVE TO CLOSURE REQUIREMENTS.
- 421.10.2** INDOOR PRIVATE SWIMMING POOLS: ALL WALLS SURROUNDING AN INDOOR SWIMMING POOL SHALL COMPLY WITH **421.10.1, ITEM 9**.
- 421.10.3** PROHIBITED LOCATIONS: BARRIERS SHALL BE LOCATED SO AS TO PROHIBIT PERMANENT STRUCTURES, EQUIPMENT OR SIMILIAR OBJECTS FROM BEING USED TO CLIMB THE BARRIERS.
- 421.10.4** EXEMPTIONS: THE FOLLOWING SHALL BE EXEMPT FROM THE PROVISIONS OF THIS SECTION.
1. A SPA OR HOT TUB WITH AN APPROVED SAFETY COVER
 2. FIXTURES WHICH ARE DRAINED AFTER EACH USE.

THE ABOVE INFORMATION HAS BEEN EXTRACTED FROM THE 1993 BOCA STANDARD. FOR COMPLETE SPECIFICATIONS PLEASE REFER TO CODE DOCUMENT. MOST JURISDICTIONS REQUIRE BARRIERS OR FENCING AROUND ALL POOLS. CONSULT YOUR LOCAL BUILDING OFFICIALS TO DETERMINE THE APPLICABLE REQUIREMENTS.

ADVISORY XVI

The following is reprinted with permission from the Consumer Product Safety Commission.

Consumer Product SAFETY ALERT

FROM THE U.S. CONSUMER PRODUCT SAFETY COMMISSION, WASHINGTON, D.C. 20207

July 1991

Prevent Electrocutions:

Install Ground-Fault Circuit-Interrupter Protection for Pools, Spas, and Hot Tubs

The U.S. Consumer Product Safety Commission (CPSC) recommends the installation of ground-fault circuit-interrupter (GFCI) protection for consumers against electrical shock hazards in pool underwater lighting circuits and in electric circuits of spas and hot tubs.

CPSC is aware of three recent electrical shock incidents involving the electric heater circuits of spas or hot tubs. Recently, a maintenance worker was electrocuted while repairing a pool light fixture.

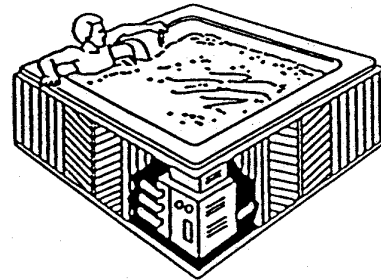
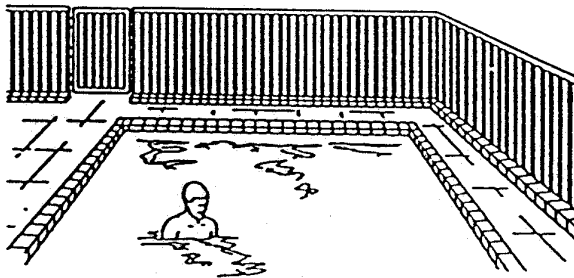
A GFCI constantly monitors current flowing in a circuit to sense any loss of current. If the current flowing through two circuit conductors differs by a very small amount, the GFCI instantly interrupts the current flow to prevent a lethal amount of electricity from reaching the consumer. The consumer may feel a painful shock but will not be electrocuted.

The National Electrical Code provides for GFCI protection for cord-and-plug connected spas and

hot tubs, and for lighting fixtures and receptacle outlets in the vicinity of pools, spas and hot tubs. However, the code does not require GFCI protection for all electrical equipment, particularly 240 volt equipment. Older pools, spas and hot tubs may not have adequate GFCI protection. In particular, pools older than 10-15 years may not have GFCI protection on underwater lighting circuits. Underwater swimming pool lighting fixtures and spa/hot tub heaters are a potential source of electrocution. Both 120 volt and 240 volt circuits should be protected by GFCIs.

Although grounding may provide some protection for pool, spa, and hot tub equipment, GFCIs are the most effective means for protecting consumers against electric shock hazards.

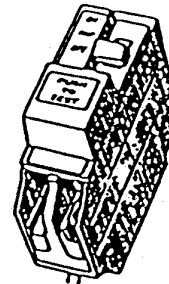
CPSC urges consumers to have an electrician install adequate GFCI protection for all spa and hot tub electrical equipment and for underwater swimming pool lighting fixtures.



ELECTROCUTION HAZARD

- Install a GFCI on underwater light circuits operating at more than 15 volts.
- Install a GFCI to protect all electrical equipment used with spas and hot tubs, including spa and hot tub heaters with 240 volt circuits.

GFCIs should be installed in accordance with the National Electrical Code.



← Circuit Breaker Type GFCI

ADVISORY XVII



When your car breaks down you bring it to a certified mechanic. When your plumbing backs up, you call in a licensed plumber. Why trust your pool to anyone less than a proven professional?

IF YOU'VE GOT A POOL— GET A PROFESSIONAL



A clean, safe, enjoyable pool and spa can best be maintained by a qualified professional. We employ NSPI CERTIFIED pool technicians with proven excellence in pool and spa maintenance. The NSPI CERTIFIED pool technician has passed comprehensive standard examinations and training. Don't trust your pool to anyone less than the best.

We are a proud member of NSPI, the National Spa and Pool Institute, a trade association for professionals in the pool and spa industry. We offer NSPI CERTIFIED technicians on staff.



ADVISORY XIX

REPLACEMENT PARTS PROCEDURE

Replacement parts are generally available all year from the factory. In some cases, they are in stock at your dealer's showroom. It is advisable to purchase your requirements PRIOR to the summer months. This will enable the manufacturer and its dealers to service you better.

A. WHEN ORDERING REPLACEMENT PARTS, ALWAYS:

1. Circle the part or parts in this instruction booklet
2. Send back a copy of the page to the Manufacturer's address listed on your warranty or take it to your dealer for assistance and identification
3. Specify the **Color** of the part, the **SIZE** and the **NAME** of your particular pool, the **YEAR** your pool was purchased and the warranty **REGISTRATION NUMBER**.
4. Replacement parts are only available to the first owner/user of this pool. Proof of purchase (copy of sales receipt) and Limited Warranty Registration card are required.

REPLACEMENT PARTS ORDER POLICY

1. For all Warranty and Non-Warranty parts orders, there is a minimum **\$40.00** handling and service charge in addition to the cost of the parts ordered.
2. NO SHIPMENTS ARE SENT "COLLECT" OR "COD" FROM THE FACTORY. The cost of replacement parts, plus the actual freight cost (when available) will be quoted to you prior to purchase. All orders must include:
 - a. Replacement part or parts cost
 - b. **\$40.00** handling and service charge plus U.P.S. charges
 - c. Freight costs for replacement parts shipped by common carrier cannot be quoted. They are shipped **COLLECT**. You may designate a carrier.

ONLY MONEY ORDERS, VISA or MASTER CARD will be accepted for payment.

If you are charging by Visa or MasterCard you must also include:

1. Account Number
2. Expiration Date