

VOLUME

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SUN DEFENDER FLOATING UMBRELLA

AQUASHADE BASE

INSTRUCTION MANUAL

SERENE ENVIRONMENTS, LLC

Instruction Manual for Sun Defender / AquaShade

Serene Environments, LLC
Sales@Sundefender.net

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General Information

Congratulations on your purchase of the first of its kind in floating shade.

Let us start off by saying that we hope you find your SunDefender or AquaShade Base products as equally useful both in and out of the water. This product was born from the desire to enjoy the water without the fear of sun damage or oily UV protection products. This manual covers both the SunDefender and AquaShade Base products, depending on if you purchased a complete “Sun Defender” or just the “AquaShade Base”. Assembly will take only a few minutes. A complete list of the included parts and optional parts can be found on the following pages.



What is an “AquaShade Base” ?

The AquaShade Base is the heart of our company. It was designed and patented after years as a backyard hobby, it is a fillable weighted base with cup holders used for supporting most any umbrella that has a maximum pole diameter of 1.5”. It can be filled via 5” opening with your choice of materials such as water, rock, sand, or more fun items like ice and your favorite beverage. Those same materials also provide the umbrella stability when next to a pool or moved into the water. The more materials used the greater the weight and increased stability. Fully filled with water you SunDefender will weigh approximately 110lbs on land and slightly less in water. For water use, a fitted floatation ring is required.

Note: It has anchor points on both top and bottom for added stability. In addition a 1.5 inch drain hole is located in the bottom.



What is a " Sun Defender " ?

SunDefender Umbrella and AquaShade base combined. The Sun Defender is our marketing name and represents an umbrella made from 1.5" aluminum center pole, heavy fiberglass ribs, and Outdura fabric. The size and functions can vary depending on seasonal suppliers and intended uses. The umbrella is not a product we manufacture, we are simply offering the umbrella as a once stop shopping convenience. You are also able to use your own.

The SunDefender umbrella comes with two bottom poles. One is 36" for use poolside. The other is 20" for use with the AquaShade Base in the water. The reduction in length will shorten the umbrella canopy height to the water level, providing better shade and stability.

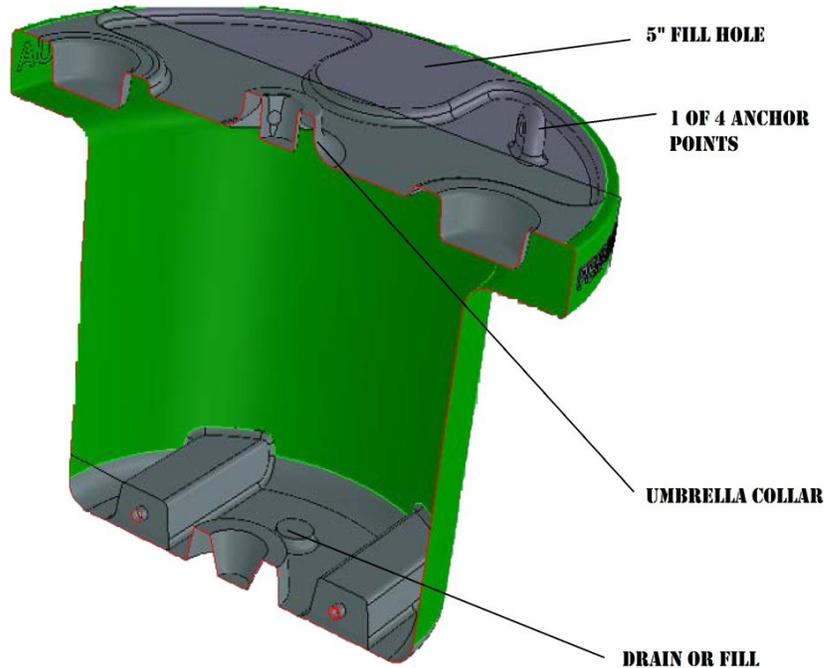
AquaShade Base with My Own Umbrella

- Be sure your umbrella pole is no larger than 1.5". This is normally not a problem unless your umbrella is wood. In which case we would not suggest that for water applications. Wood will swell and become stuck. Aluminum or Fiberglass is the suggested material, as steel will rust.
- Your umbrella is likely in two pieces. The bottom pole is cut to a length for land use. In the water this will result in a larger than preferred distance of the canopy from you and the water level. In general, the shorter the distance of the umbrella canopy to the water the better for both shade and umbrella stability. So unless you can acquire a spare pole to cut down to size, you will want to reduce your current one. Your local hardware store might perform the cut for you, if you ask nicely, and tell them where to cut. A tubing cutter capable of fitting 1.5" tube is the easiest choice for tool. Just be sure to measure your distance carefully. **The connection point, or the point where the thumb lock button pops through the pole of your umbrella, should be at least 18.5" from the bottom of your pole.** This will prevent that point from falling into the Aquashade Base, thus keeping the connection above the collar of the umbrella base making the connection easy both in and out of the water.
- NOTE: Tilting of the umbrella canopy is a function of size, weight and wind conditions. It can be done but stability will vary upon conditions.

Parts and Pieces

As detailed earlier, if you ordered only the Aqua Shade Base for use with your own umbrella then the following pieces should be in your box or already assembled.

- Aqua Shade Base for Sun Defender



- 1/4" Black Knurled Thumb Screw for locking umbrella into place.



- 1.5" Test Plug for capping the drain hole in the bottom of AquaShade Base. The cap will be pushed into the drain hole allowing the butterfly nut to tighten slightly (**Warning- do not overtighten. A half turn past snug is all that is required**)



- 5” Cap to close the fill hole and acts as a cup holder



- 0.35mm Vinyl inflatable floatation ring with oversize valve for easy use.



SunDefender Complete

If you purchased the Sun Defender Complete then you will also be receiving a umbrella complete with a 36” land pole and a spare 20.5” AquaShade Base pole.

Optional Parts

The following parts are not included but can be purchased separately from www.SunDefender.net

- AquaShade Base Insulation Kit - For those customers who would like to add their favorite beverage and extend the cooling life of the ice inside the AquaShade Base. We offer ¾” Crosslink Foam with 2lb density. This foam is custom cut to fit without glues or tapes and will pass through the 5” fill hole in 8 pieces. (Bottom, Side Wall A, Side Wall B and Top) Testing results varied with external temperatures but on average you will extend the life of your ice 5hrs or more.
- Logo’s and Personalized Messages can be added to your SunDefender umbrella. You supply the artwork in pdf or ai format. Please Contact our Sales Team at Sales@sundefender.net

Suggested Parts

The following are parts not sold but you will find useful.

- Ropes – marine or pool grade 1/4” for anchoring. Attach to any of the 4 anchor points.
- Weights – such as 15lb mushroom anchor with vinyl coating, or dive belt weight for attaching to the bottom anchor point of the AquaShade Base. This will hold your umbrella in place so the wind doesn’t move it around the pool.

Assembly

The AquaShade Base / SunDefender Assembly

Remove the AquaShade Base Assembly from the shipping box. Make sure all pieces found in the Parts and Pieces section are accounted for. Note some may already be installed into proper location.

Remove the floatation ring from the inside of the AquaShade Base if not found in box.

Step 1 Land or Water Use

Knurled Thumb Screw – Insert the 1/4” Knurled Thumb Screw into the brass nut located on the AquaShade Base collar. (Might already be installed)

Step 2 Water Use Only

Inflate the 0.35mm float ring found in the box of inside of AquaShade Base. There is a one way valve located on the side of the float ring the inner plug is used for one way inflation. The larger outer plug is for easy deflation.

Step 3 Water Use Only

Insert Floatation Ring in water. **Check to see if test plug is already installed inside base. If so remove it.** Insert the AquaShade Base inside of the floatation ring. NOTE: Water will begin filling the bottom of the AquaShade Base through the drain hole and force the AquaShade base down to flush with the top of the float ring.

Step 4 Land or Water Use

Insert or Reinsert the 1.5” test plug into the drain hole from the “INSIDE” the AquaShade Base. It will likely be snug and you will feel it snap down flush to top of the drain hole. Then tighten the wing nut until snug. **NOTE: VERY LITTLE TIGHTENING WILL BE NECESSARY (DO NOT OVERTIGHTEN - CAN CAUSE DAMAGE AND CRACK DRAIN HOLE)**

Step 5 Land or Water Use

Continue to fill AquaShade Base with water until 1/2 or 3/4 full for most wind conditions. High wind conditions may require completely filling base with water. Water hose works well.

Step 6 Water or Land Use

Insert bottom half umbrella pole into the AquaShade Base. Make sure the pole seats to the bottom of the base rests firmly inside the cone shape receptacle inside the AquaShade Base, then tighten the 1/4" thumb screw until pole is firmly secure.

Note: 20" bottom umbrella pole for water application 36" bottom umbrella pole for land application

Step 7 Land or Water Use

Snap on umbrella to the bottom half umbrella pole and lift, crank or pull open as required.

Step 8 Land or Water Use

Insert 5" Fill cap into fill hole.

Optional Insulation Kit Assembly



There are 8 pieces in the Optional Insulation Kit. The kit creates a high density foam barrier against the walls of the base to retard heat transfer from the surrounding ambient conditions. It consists of 4 pieces of molded concrete, to level the bottom while providing additional insulation and stability. In addition the kit contains a 4 piece high density cross link foam. Top, Side Walls A& B and Bottom

The foam side walls are identical in size and shape. The bottom edge will be slightly shorter in length than the top edge. It will work on either side but the bottom edge must always be on inserted first and will fit firmly around the concrete floor to hold it in place. Please pay close attention to which edge you have at the bottom. If installed upside down you will see gaps. If correct it will appear seamless.

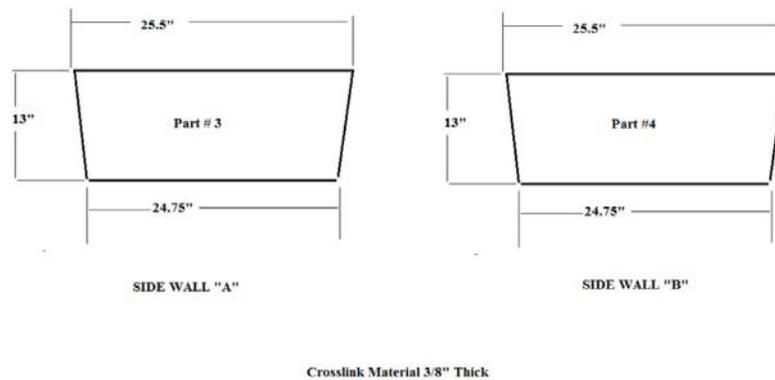
Installation Steps

Piece 1- 4 Floor - In order to create a level floor in the bottom of the base, concrete has been molded to fit through the Top Fill Hole and lay snugly in the bottom. Don't worry about movement it will be secured in the following steps



Step 2 Side Wall Cross Link High Density Foam Insulation

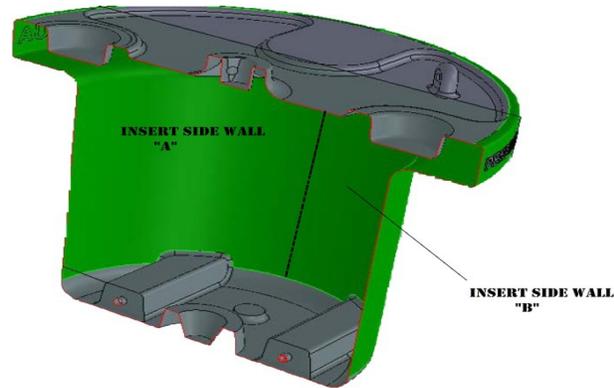
Piece 5 – 6 The side walls are identical in size and shape. **The bottom edge of each will be slightly shorter in length than the top edge.**



Once bottom is determined, role the foam into a log capable of slipping through the top 5” fill hole and **insert both sidewalls A&B bottom first.**

It will work on either side but the bottom edge should be inserted thru the fill hole first. The pieces are made of cross link foam cut to fit snugly around the outer edge of the concrete floor. If installed correctly there will be no gaps at bottom or top and it will appear seamless.

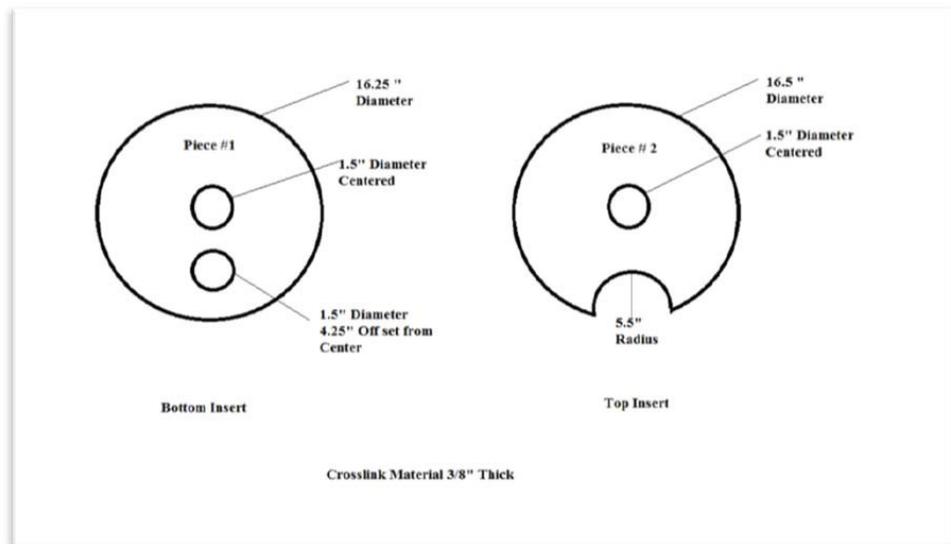
It will remain in place without glues or tapes. You could make them permanent by gluing or taping but our suggestion is to leave them removable for easier cleaning.

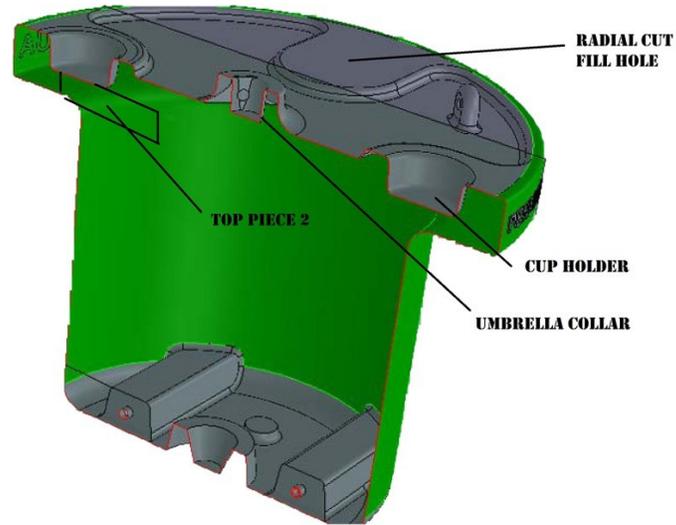


Step 3 Bottom and Top High Density Foam Installation
 Pieces 7 – 8

Roll and Insert the Bottom Piece (#1 in illustration). The bottom will have two holes of 1.5” diameter and will match the holes in the concrete floor. The Bottom will be slightly larger and will not fit flush, this is by design to allow the foam to push snugly against the sidewalls and remain in place.

Roll and Insert the Top Piece (#2 in illustration). The top will fit across the top of the sidewalls and snugly underneath the cup holders of the base. This will hold everything snugly in place. Just match the fill hole with the 5.5” Radius cut out in the foam.





Final Install will look like



Warning

The SunDefender is not a toy. It is designed and intended for providing shade and access to drinks in water and land environments only. It is not a life saving device or floatation aid. It is not designed for sitting, leaning, or holding onto. Doing so will cause the umbrella to become unstable. Children should not be left unsupervised when SunDefender is in use. Serene Environments LLC is not responsible for use of SunDefender in any way for which it was not designed or if operated in extreme weather conditions.

Please enjoy SunDefender responsibly.



