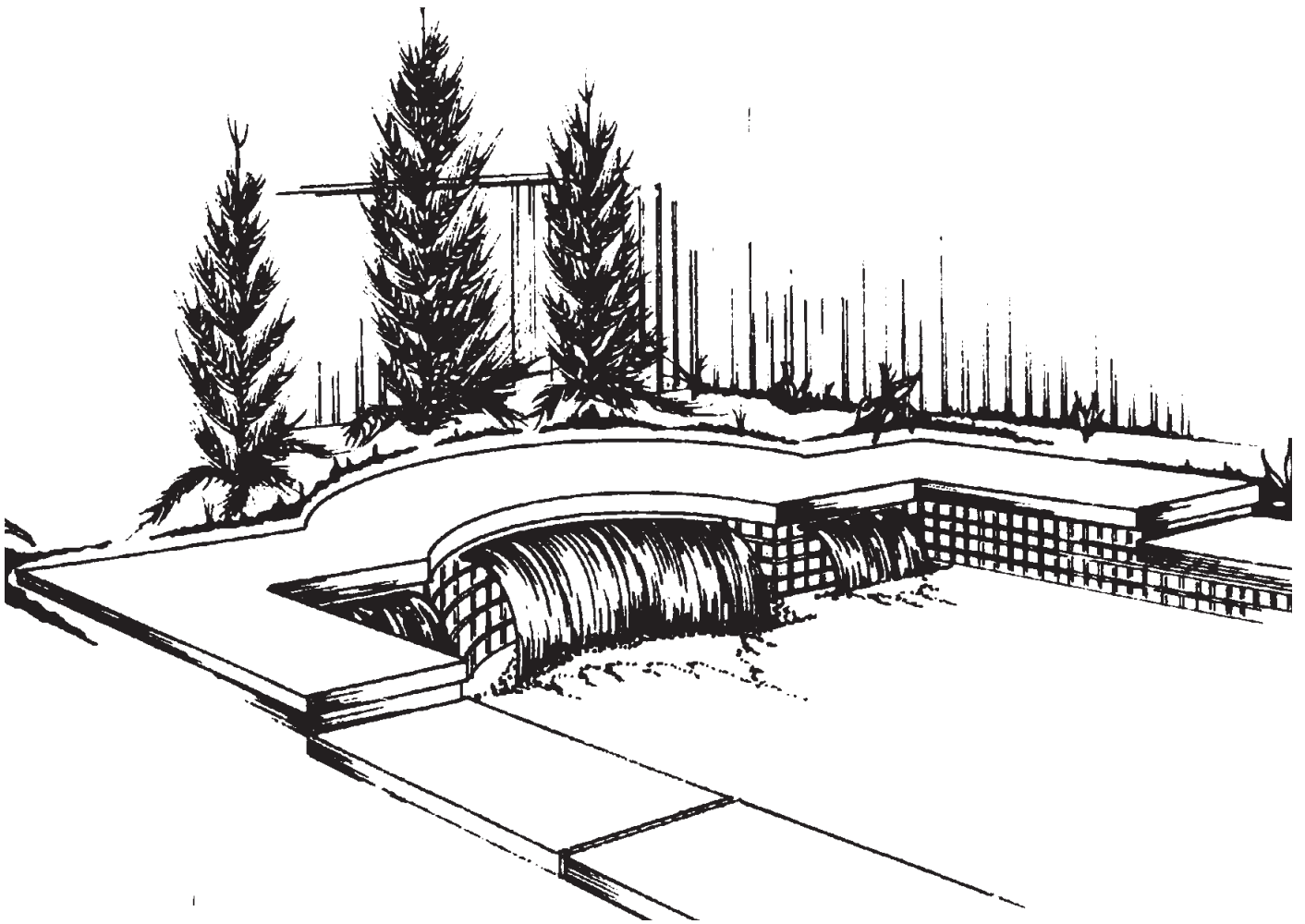


# SHEER DESCENT



STATE OF THE ART WATERFALLS

Speciality Waterfalls Installation Manuals



Jandy®

# Contents

|                                |    |
|--------------------------------|----|
| Sheer Delight Waterfalls ..... | 2  |
| Sheer Curtain Waterfalls ..... | 6  |
| Sheer Rain Waterfalls .....    | 8  |
| Sheer Arc Waterfalls .....     | 9  |
| Rain Arc Waterfalls .....      | 10 |

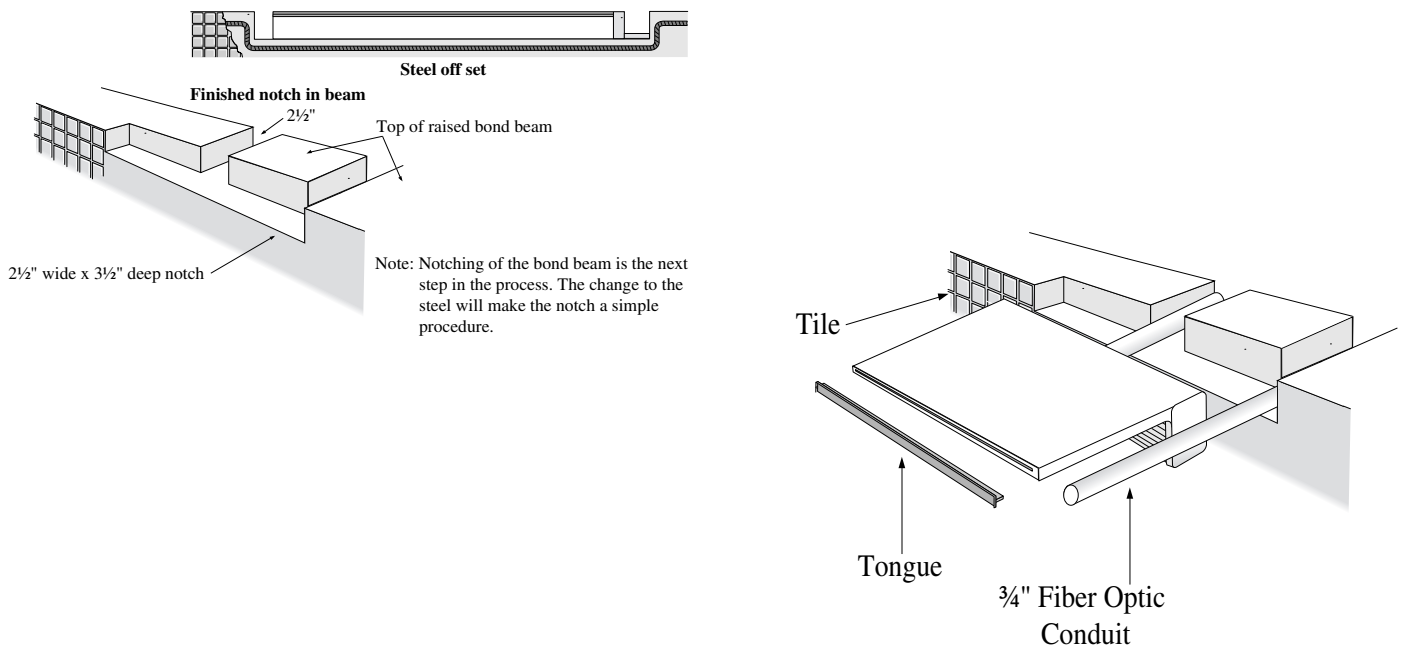
**THE UNIT MUST BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PLEASE READ AND FOLLOW ALL INSTRUCTIONS PLEASE SAVE THESE INSTRUCTIONS.**

# Jandy Sheer Delight Waterfall Installation Instructions

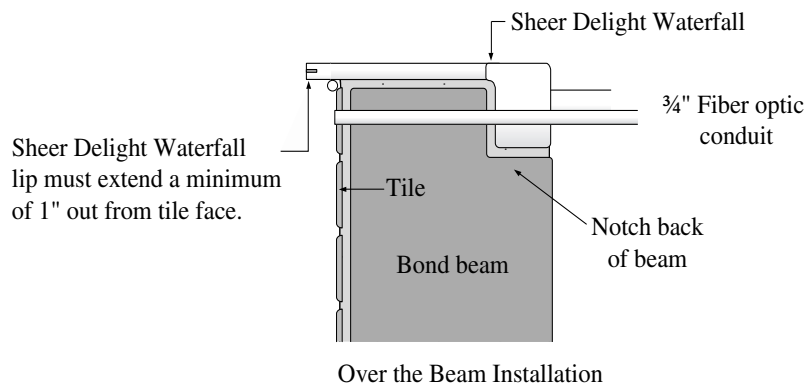
Sheer Delight waterfalls come complete with track, appropriate length of fiber under the waterfall and 1' driver. The fiber will splice to most fiber optic cables. Sheer Delight waterfalls are available with soft white and metal finish lips only.

## Follow all Sheer Descent Installation instructions with the following exceptions:

1. Add an extra notch to the beam (see figure 1) to allow for the 3/4" fiber optic conduit to go through the wall. For Sheer Delight Waterfalls up to four (4) feet, a single conduit on the right side of the waterfall (when looking at the waterfall) is all that is required. For five (5) feet and above, two conduits are required as well as two notches on the beam, one either side of the waterfall.



2. In addition to this change, the Sheer Delight must extend one (1) inch in front of the tile in order to allow for the track and fiber optic cable to be installed (see figure 2).



# Stranded Fiber Splice Kit Installation Instructions

This installation instruction is designed to assist you in splicing the solid core fiber of the Sheer Delight Waterfall to stranded fiber. It is imperative that a minimum of 50 strands of fiber be used for all waterfalls up to three (3) feet. If the fiber length from the illuminator to the Sheer Delight is over 30', use 75 strands of fiber.

The splice is the most important part of the installation process. Please pay close attention to the splice instructions to assure maximum light output. The solid core fiber installed in the track of the waterfall can be removed for the splice. When reinstalling the fiber make sure the light is pointed down and is not twisted on the track. Also take care when reinstalling the fiber not to bend the ends of the track as breakage could occur. When the splice is complete push the fiber into the fiber optic conduit first, then install the light bar on the track, otherwise too much strain will be placed on the track and the splice. Note: in cold climates heat the light bar with a heat gun to make installation easier. Make sure the black plug is secured into the conduit to complete the installation.

Please carefully read and follow all instructions in this manual. Please save these instructions.

## Parts List:

1. Three (3) tie-wraps
2. One (1) splice sleeve
3. One (1) zinc hex nut

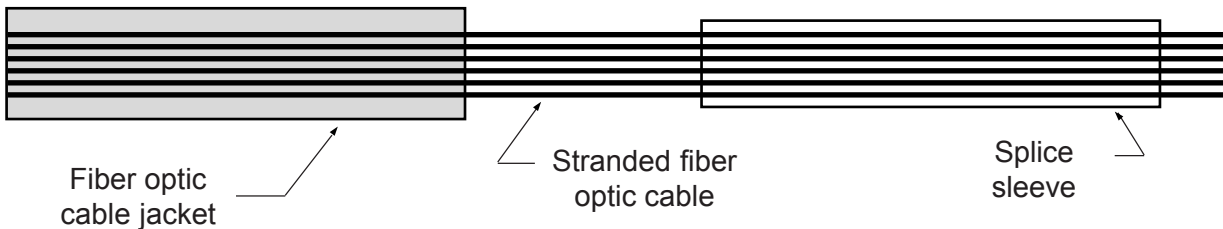
## Tools Required:

1. Hot knife or similar stranded fiber cutting tool
2. PVC glue
3. Silicon or similar adhesive

After pulling the appropriate size stranded fiber optic cable from the illuminator through the conduit to the waterfall, extend the cable far enough to be able to easily work on the splice. Remove the solid core light emitting fiber from the track located just below the opening of the waterfall. You will note on the fiber there is a clear female PVC sleeve already secured to accept the splice fitting.

First, strip back the stranded fiber jacket approximately three (3) inches to expose the individual fibers. **Make sure to be careful not to damage any of the fibers.** Take the splice sleeve and thread the fibers through the sleeve as shown below.

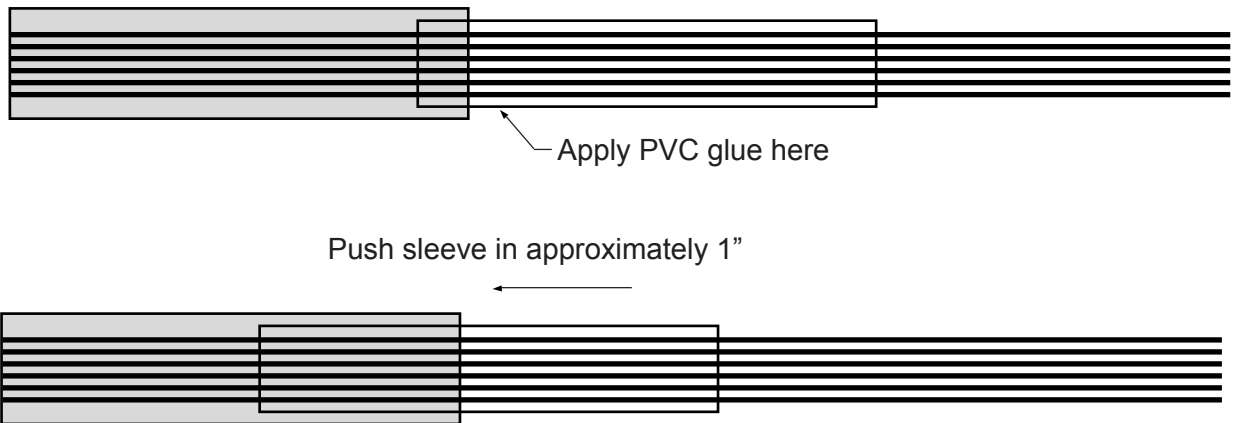
Strip jacket of stranded fiber approximately 3", slip splice sleeve over fiber.



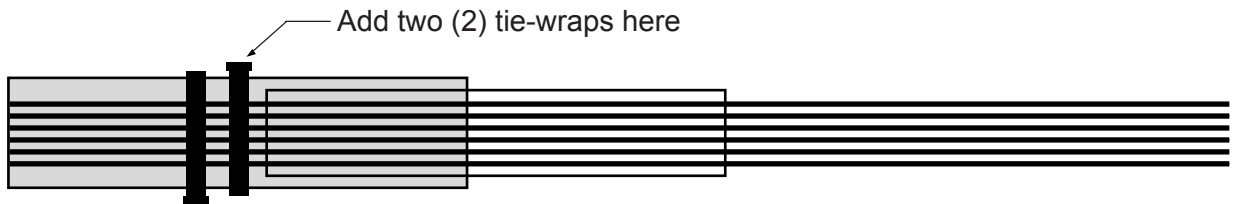
Next, slide the splice sleeve down to the stranded fiber jacket and carefully insert the tube approximately 1/8" onto the fiber jacket. Do not go any further as glue must be applied at this point.



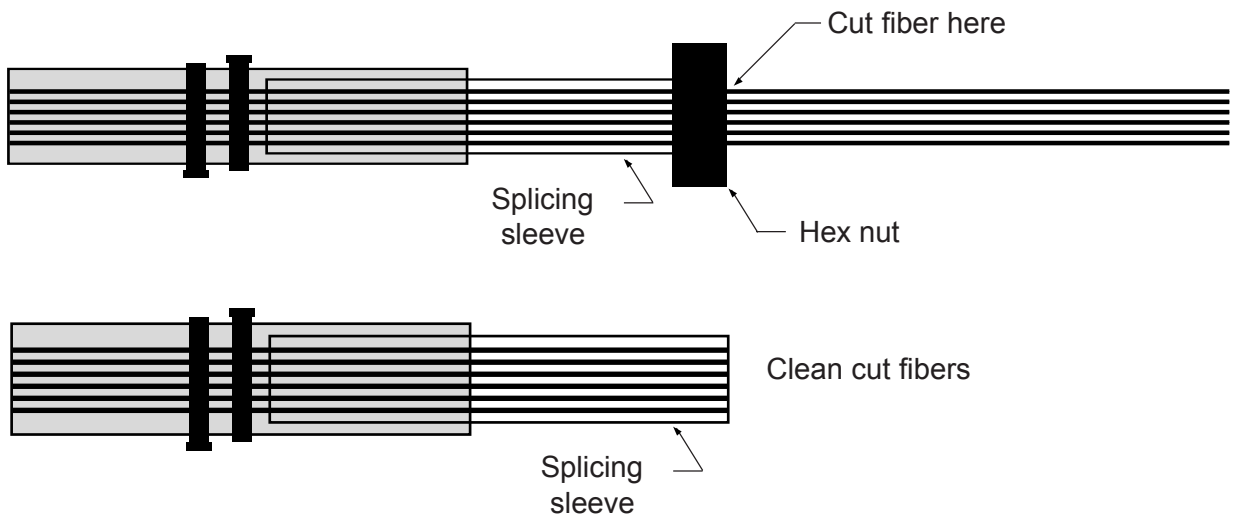
Apply PVC glue to the splice sleeve, be careful not to get any glue on the stranded fiber. After applying the glue, push the splicing sleeve approximately one (1) inch onto the fiber jacket. Wipe off any excess glue.



Using one of the tie-wraps supplied, tighten securely over the stranded fiber jacket just after where the splice sleeve ends. Add a second tie-wrap just after the first to make sure the fiber inside the jacket is secure.

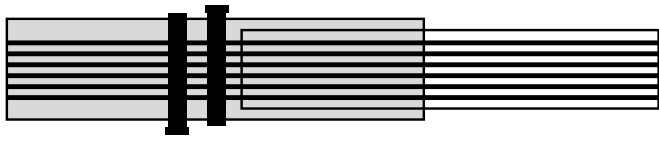


Using the hex nut supplied, push the fiber strands through the hex nut and thread the nut onto the splicing sleeve so that the nut is flush with the sleeve. This will become the guide for the hot knife to rest against to properly cut the fibers. Using the hot knife or similar recommended stranded fiber cutting tool, cut the fiber carefully next to the hex nut. When done, remove the nut. The end result should now be a smooth cut at the end of the splice sleeve as shown below.



Apply glue to the splice sleeve on the stranded fiber as shown below. Slide the end of the solid core fiber with the clear splicing sleeve from the waterfall over the end of the stranded fiber splice sleeve.

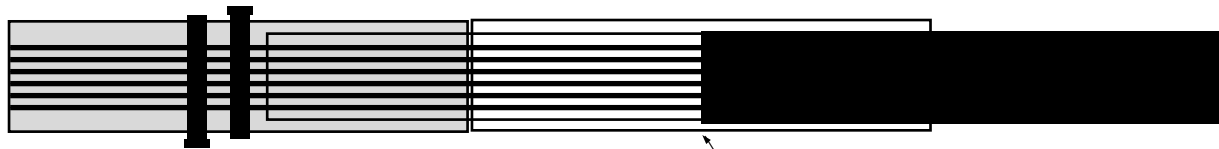
**NOTE:** make sure the stranded fiber is snug against the solid core fiber inside the sleeve as shown. This is extremely important to assure proper light transfer. If they do not touch, pull the solid core off and cut the clear sleeve down to assure a tight fit.



Stranded fiber ready for splice

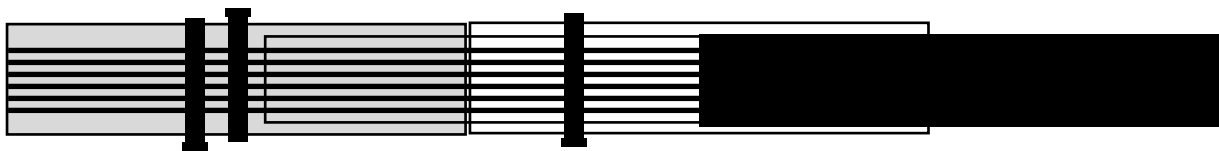


Solid core fiber with splice sleeve



Be sure the ends of the fibers  
(solid to stranded) are touching

While the glue is drying, use the remaining tie-wraps to secure around the splice sleeve as shown. This will help secure the splice from releasing during the final phase of installation.



Install the solid light emitting fiber onto the track of the waterfall. Make sure that the fiber light points towards the water.

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# Jandy Sheer Curtain Waterfall Installation Instructions

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Sheer Curtain waterfalls produce a clear curtain of water that descends straight down from the lip of the waterfall. It is ideal for cantilever and swim-out installations. Note: if this product is installed on a wall, the wall will be saturated by water.

The Sheer Curtain Waterfall installs like a Sheer Descent with the exception the lip must extend a minimum of 1" in front of the tile (see figure 1). For Fiber Optic Sheer Curtain Waterfalls, the lip must extend 2" from the tile or wall (see figure 2).

**Sheer Curtain Waterfalls require approximately 10 gallons per minute per foot (gpm/ft)**

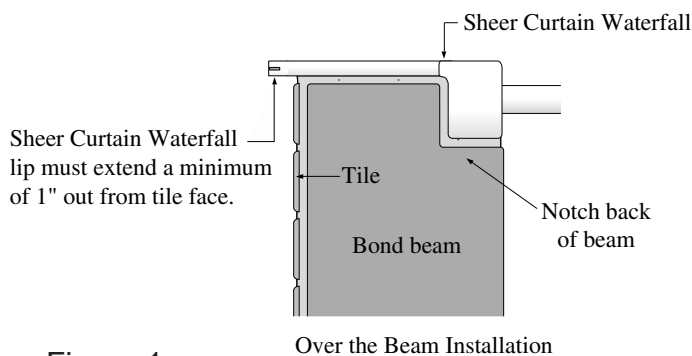


Figure 1.

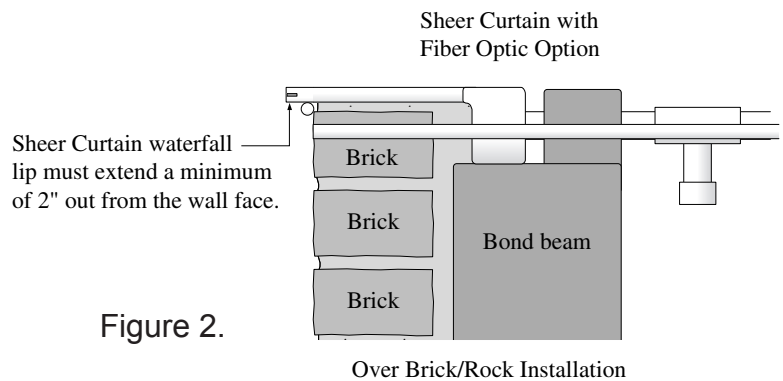


Figure 2.

For radius applications, consult the radius chart located in the Sheer Descent Manual to select the proper size waterfall. All Sheer Curtain radius waterfalls must be custom cut at the factory. Please when ordering specify the radius desired and if it is a concave or convex curve.

Sheer Rain waterfalls can be ordered in a variety of lip colors including bronze, brass, copper or silver nickel.

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# Jandy Sheer Rain Waterfall Installation Instructions

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The Sheer Rain Waterfall provides a single row of streams of water and projects them away from the lip of the waterfall at a 45° angle. The “rain” provides a unique water effect with a completely different waterfall sight and sound. Water requirements for this product is between five (5) gallons per minute and seven (7) gallons per foot. The more water provided to the waterfall, the farther out from the wall the “rain” projects.

The Sheer Rain Waterfall installs like a Sheer Descent with the exception the lip must extend a minimum of ½” in front of the tile (see figure 1). For lighted Sheer Rain Waterfalls, the lip must extend one and a half (1½) inches from the tile or wall (see figure 2).

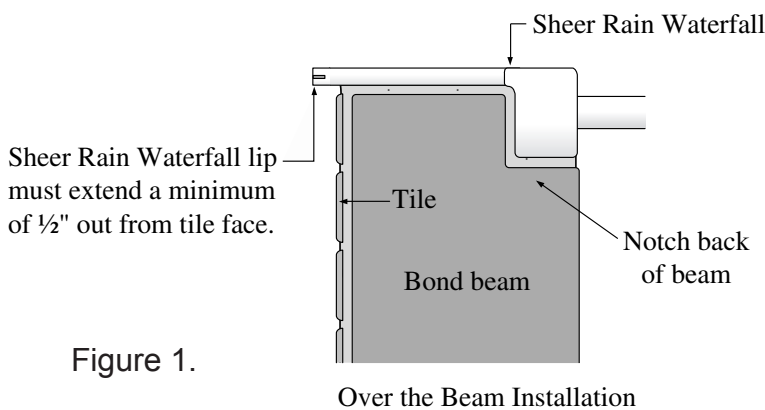


Figure 1.

Over the Beam Installation

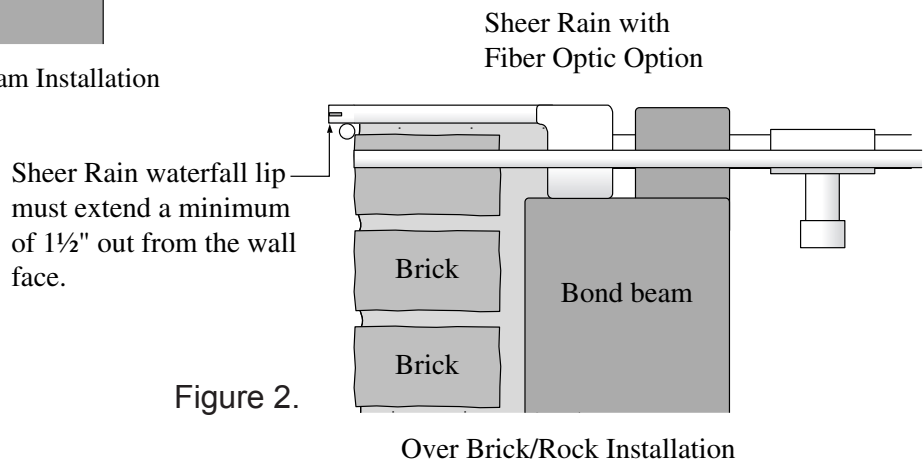


Figure 2.

Over Brick/Rock Installation

For radius applications, consult the radius chart located in the Sheer Descent Manual to select the proper size waterfall. All Sheer Rain radius waterfalls must be custom cut at the factory. Please when ordering specify the radius desired and if it is a concave or convex curve.

Sheer Rain waterfalls can be ordered in a variety of lip colors including bronze, brass, copper or silver nickel.

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# Jandy Sheer Arc Waterfall Installation Instructions

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Jandy Sheer Arc Waterfalls can be positioned just above the waterline, no raised bond beam is required. The curtain of water projects up from the unit at a 45° angle and then naturally arcs and descends to the pool surface. Sheer Arc Waterfalls, at this time, are not available with fiber optic lighting and are available with a soft white colored lip only.

Jandy Sheer Arc Waterfalls are available in 12", 18", and 24" lengths. Jandy Sheer Arc waterfalls come in straight sections and are available only in extended lip models. This installation is similar to the Jandy Sheer Descent with the following exception: the lip of the waterfall must be far enough away from the wall to assure the water spraying from it will miss the coping installed above it (see figure 1).

NOTE: Sheer Arc Waterfalls require approximately twice the water volume as a Sheer Descent® Waterfall. Plan on using between 20 to 30 gallons per minute per foot (gpm/ft).

Sheer Arc Waterfalls are not available with a radius or special order colored lips.

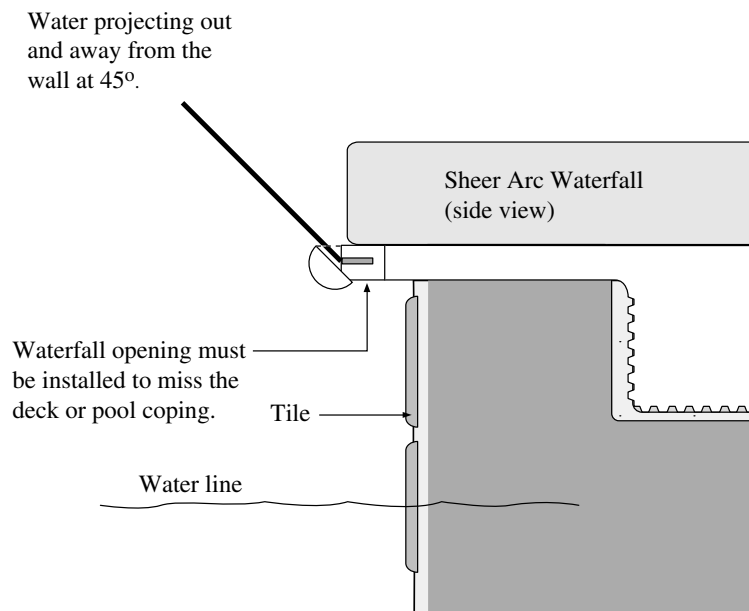


Figure 1.

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# Jandy Rain Arc Waterfall Installation Manual

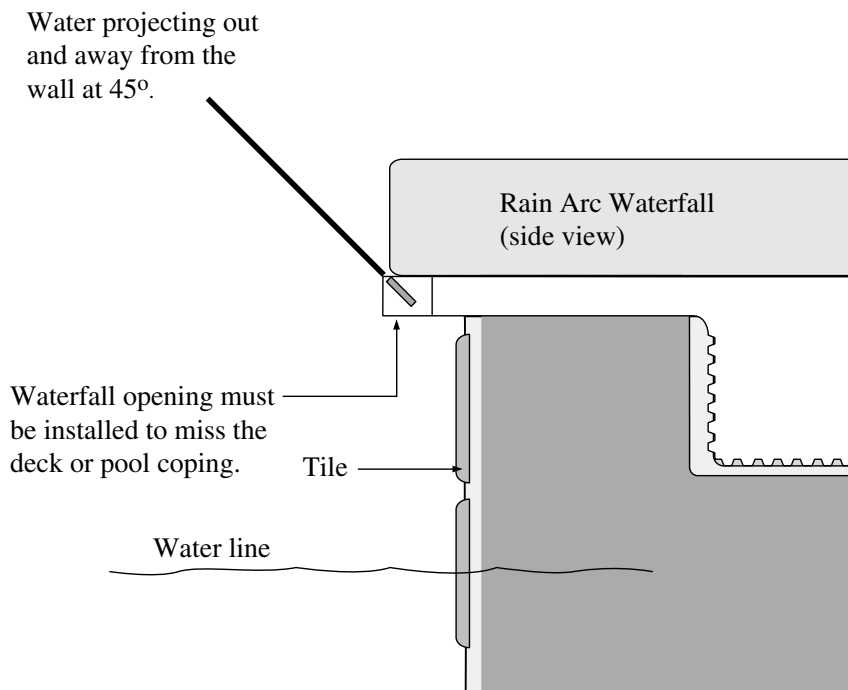
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The Jandy Rain Arc Waterfall projects a "wall" of spray streams at a 45° angle up into the air. This feature of projecting water upward allows it to be installed in pools without raised walls! This can dramatically lower the cost of an installation and more importantly allow for more installation opportunities in virtually any concrete, fiberglass or vinyl liner pool. Jandy Rain Arcs are available in five sizes up to four (4) feet in length and come with a soft white lip. All Jandy Rain Arcs are intended for straight walls and cannot be used in a radius application. Jandy Rain Arcs, at this time, are not available with fiber optic lighting.

This document gives instructions for installing the Jandy Rain Arc in a concrete or vinyl liner pool. The instructions must be followed exactly. Read through the instructions completely before starting the procedure.

## A. Concrete installation.

1. Install the Jandy Rain Arc at the top of the tile line as shown below. This installation is similar to all Jandy Sheer Descent Waterfalls with the exception, the lip of the waterfall must be installed far enough away from the wall to assure the water spraying from it will miss the coping installed above it.
2. All Jandy Rain Arcs' spray water at a 45° angle from the end of the waterfall. Using this information as a guide, make sure you adjust your installation accordingly. The rest of the installation is identical to a Jandy Sheer Descent Waterfall. See the Sheer Descent installation manual included with the Jandy Rain Arc.



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# Jandy Rain Arc Waterfall Installation Manual (continued)

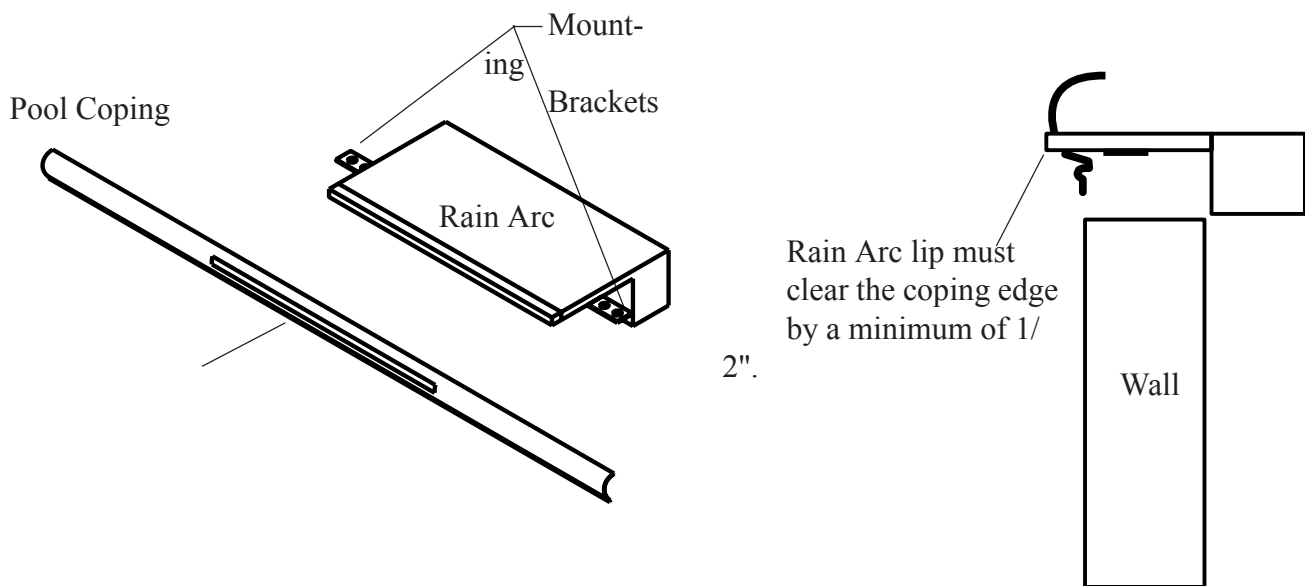
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## B. Vinyl Liner Installation.

1. A slot must be made in the pool coping to allow the Jandy Rain Arc to be installed. The slot needs to be 5/8" high by the length of the waterfall, plus 1/4". For example, if you install a three (3) foot Jandy Rain Arc, the slot must be 5/8" high by 36 1/4" long. The slot should be made just above the bead retainer keeping the Jandy Rain Arc as deep as possible in the deck to prevent concrete problems.

Note: many coping manufacturers are now pre-slotting some of their copings. Please inquire about this as this can greatly assist the installation.

2. Push the Jandy Rain Arc through the slot making sure it protrudes approximately 1/2" out from the coping or far enough out for the water to miss the "nose" of the coping. Make sure the coping does not block the water.
3. The Jandy Rain Arc comes with two mounting tabs, which allow you to mount the waterfall to the wall of the pool awaiting final plumbing and then the deck. After securing, using a silicon or similar adhesive, caulk around the product and the slot to create a waterproof seal and to keep the concrete from seeping into the pool.
4. Plumb the waterfall as indicated in the attached manual titled, Sheer Descent Installation Manual making note of the changes above.



## LIMITED WARRANTY

Thank you for purchasing Jandy® pool and spa products. Water Pik Technologies (manufacturer of Jandy products, including Laars® pool and spa heaters, Air Energy Heat Pumps, and Clormatic Electronic Chlorine Generators) warrants all parts to be free from manufacturing defects in materials and workmanship for a period of one year from the date of retail purchase, with the following exceptions:

- AquaLink® RS units installed with Jandy Surge Protection Kits will be covered for two years.
- NeverLube® valves are warranted for the life of pool and/or spa on which they were originally installed.
- AquaPure™ Electronic Chlorine Generator Electrolytic Cells carry a 5 year limited warranty on a prorated basis.

This warranty is limited to the first retail purchaser, is not transferable, and does not apply to products that have been moved from their original installation sites. The liability of Water Pik Technologies shall not exceed the repair or replacement of defective parts and does not include any costs for labor to remove and reinstall the defective part, transportation to or from the factory, and any other materials required to make the repair. This warranty does not cover failures or malfunctions resulting from the following:

1. Failure to properly install, operate or maintain the product(s) in accordance with our published Installation, Operation and Maintenance Manuals provided with the product(s).
2. The workmanship of any installer of the product(s).
3. Not maintaining a proper chemical balance in your pool and/or spa [pH level between 7.2 and 7.8, Total Alkalinity (TA) between 80 to 120 ppm, Total Dissolved Solids (TDS) less than 2000].
4. Abuse, alteration, accident, fire, flood, lightning, rodents, insects, negligence or acts of God.
5. Scaling, freezing, or other conditions causing inadequate water circulation.
6. Operating the product(s) at water flow rates outside the published minimum and maximum specifications.
7. Use of non-factory authorized parts or accessories in conjunction with the product(s).
8. Chemical contamination of combustion air or improper use of sanitizing chemicals, such as introducing sanitizing chemicals upstream of the heater and cleaner hose or through the skimmer.
9. Overheating, incorrect wire runs; improper electrical supply; collateral damage caused by failure of O-Rings, DE grids, or cartridge elements; or damage caused by running the pump with insufficient quantities of water.

### LIMITATION OF LIABILITY:

This is the only warranty given by Water Pik Technologies. No one is authorized to make any other warranties on Water Pik Technologies' behalf. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. WATER PIK TECHNOLOGIES EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, INDIRECT OR PUNITIVE DAMAGES FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY.** This warranty gives you specific legal rights. You may also have other rights which vary by state or province.

### WARRANTY CLAIMS:

For prompt warranty consideration, contact your dealer and provide the following information: proof of purchase, model number, serial number and date of installation. The installer will contact the factory for instructions regarding the claim and to determine the location of the nearest designated service center. If the dealer is not available, you can locate a service center in your area by visiting [www.jandy.com](http://www.jandy.com) or by calling our technical support department at (707) 776-8200 extension 260. All returned parts must have a Returned Material Authorization number to be evaluated under the terms of this warranty.

