

island WATERFALLS

by



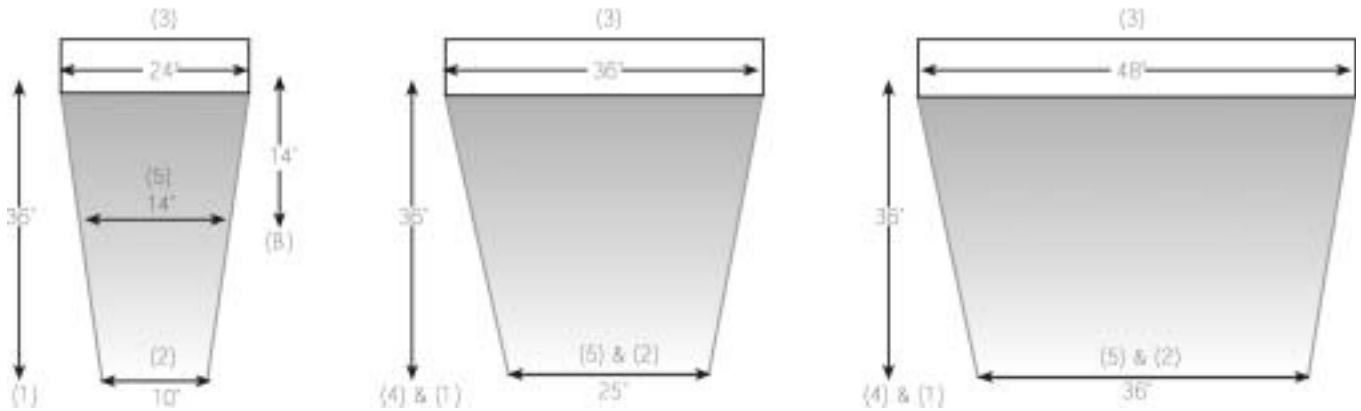
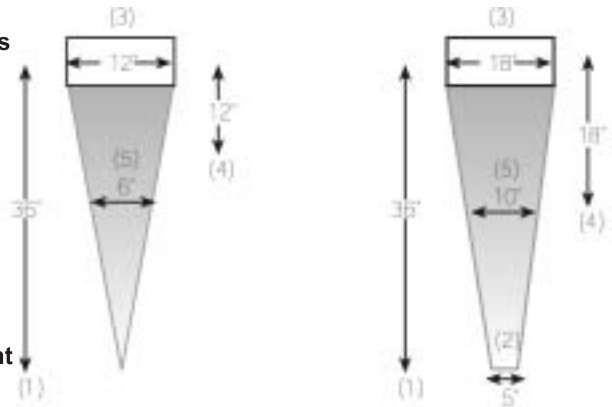
Fiberstars - 6678 Owens Drive, STE 105 Pleasanton, CA 94588 - ph 888.704.2276

WATERFALL INSTALLATION INTRODUCTION

DESIGN PREFACE

Waterfalls naturally narrow as they fall. Fiberstars presents the following waterfall height specifications for this waterfall unit:

- 1) Maximum waterfall height.
- 2) Width of sheet of water at the maximum waterfall height.
- 3) Length of waterfall fixture.
- 4) Recommended waterfall height from lip of the fixture to the pool water surface.
- 5) Width of the sheet of water at the pool water surface (when installed at the recommended height measurement B).

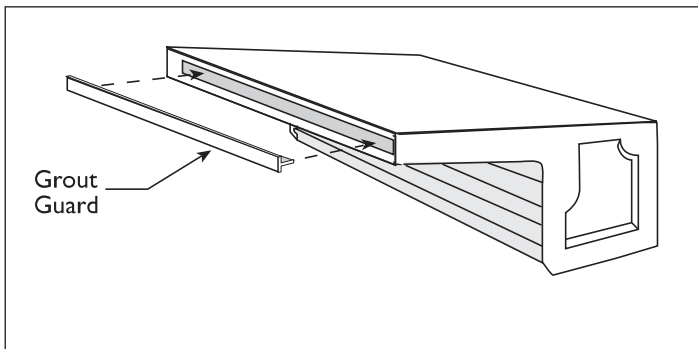


Thank you for purchasing an Island WaterFall. This manual will help you make a trouble free installation. Please follow the installation recommendations as outlined by the manufacturer.

Please read the entire manual to become familiar with the installation requirements before installing the Island WaterFall.

Important! Do Not Remove the protective grout guard until the installation is complete (See figure 1).

Note: The waterfall must be installed prior to installation of the deck and coping. The tile installer generally installs the Island WaterFall unit.





INSTALLATION FOR PVC WATERFALL UNITS

HYDRAULIC GUIDELINE CHART

- Use minimum of 1.5" pipe
 - Use minimum of 2" pipe for runs in excess of 60' or if waterfall is over 5'.
 - Dedicated plumbing lines are recommended
 - Maximum recommended flow for a typical installation:
- | | | |
|-----------|-----|---------|
| 1.5" pipe | for | 60 GPM |
| 2" pipe | for | 100 GPM |
| 2.5" pipe | for | 140 GPM |
| 3" pipe | for | 225 GPM |

TYPICAL PUMP PERFORMANCE AT 50' OF HEAD

.5 HP	=	26 GPM
.75 HP	=	58 GPM
1 HP	=	68 GPM
1.5 HP	=	93 GPM
2 HP	=	106 GPM
3 HP	=	140 GPM

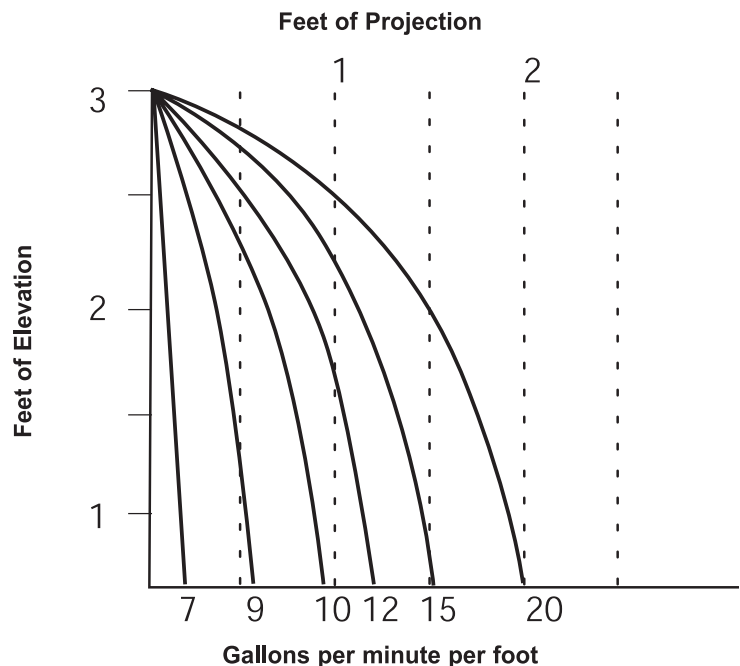
THE ISLAND WATERFALLS™

- Make sure pipes are clean before start-up.
- The supply line must have it's own cartridge filter to prevent debris from entering the waterfall.
- Excessive pressure may damage the unit.
- A ball valve should be installed on each waterfall to control flow.
- To reduce the risk of damage, close ball valve before start-up and open gradually until the desired effect is achieved.

Minimum recommended flow rate:

10 GPM per linear foot of sheer waterfall
See charts for additional info

WATER FLOW REQUIREMENT CHART FOR 1' TO 4' MODELS



First time start up tips:

1. Make sure the pump system is fully functional and active.
2. Make sure all air is purged from the line.

PROBLEM

CAUSE

SOLUTION

The flow is not smooth
Gap in the flow

Debris in the opening

Use a thin object to remove the debris by sliding the object along the opening.

Uneven flow between
(multiple waterfall installation)

Improper flow balance

Adjust the valves for each unit waterfalls until the desired effect is achieved.

INSTALLATION FOR PVC WATERFALL UNITS

STEP I.

Notching the Bond Beam

1. Mark the area prior to excavation with stakes and construction ribbon.
2. Prior to steel installation, mark the exact area for the waterfall.
3. Allow 1 inch on each side and 3.5" below the form for the WaterFall (Example: for a 12" waterfall, offset the steel pattern to allow for an additional 1" space on each side of the waterfall. For a 12" waterfall: 1"+1"+12" = 14").
4. Measure 3.5" down from the top of the frame.
5. Offset the steel rebar to allow for the cut in the bond beam.
6. Mark a channel for plumbing the waterfall. For single inlet waterfalls the channel is at the center of the notch. Longer waterfalls require more water and thus more inlets. For a 6' to 8' waterfalls, position the waterfall over the bond beam and mark the locations of the inlets.
7. Make sure the cuts in the Bond Beam are positioned correctly before proceeding.

STEP II.

Installing the Waterfall Unit

Please note where the top of the Island Waterfall throat and lip are.

1. Glue and connect a length of 1.5" diameter schedule 40 PVC piping approximately 12" long (or longer to extend beyond the back of the bond beam) into the back of the waterfall. This step will allow you to complete the mortar set and complete the plumbing later (refer to the Hydraulic Guidelines on page 3).
2. Place the Island Waterfall in the pre-cut notch in the bond beam.
3. Level the top of the Island Waterfall to the upper edge of the bond beam with tile shims, fill the area below and in back of the unit with concrete brown coat or similar material.
4. To insure that the waterfall stays in level position until the concrete is dry. Cover the finished setting with 1/2" or 3/4" plywood. Place bricks or a cinder block on top of the plywood so the weight is evenly distributed over the waterfall and the bond beam. Check with a level.

Note: This procedure must be always be followed for all installations. Unleveled installation will produce an uneven water flow.

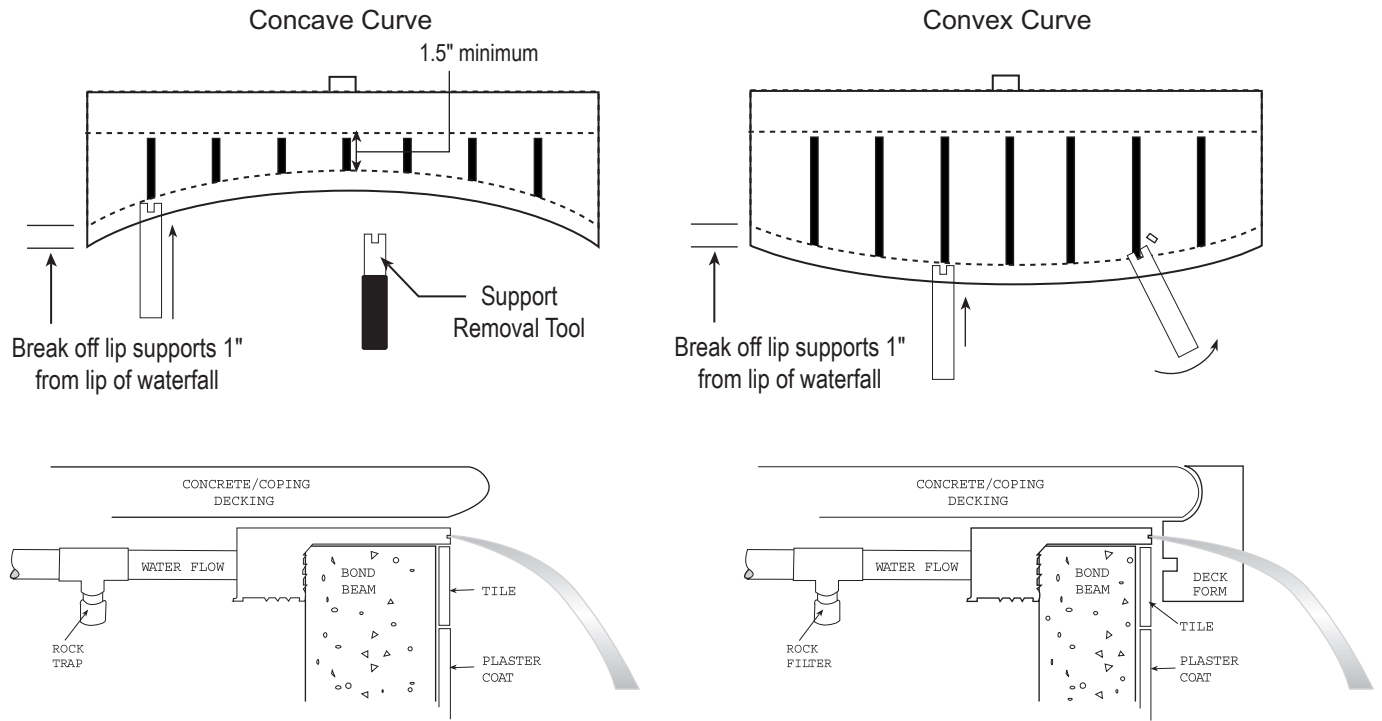
5. When the concrete is dry remove the plywood cover. Before plastering make sure the protective grout guard is in place. Cut the tile to fit under the lip of the spillway and secure with thin set or a similar compound. Be sure the finished wall surface is flush with the waterfall lip edge (see Figure 3A).

Island Waterfalls Limited Warranty

Fiberstars Inc. warranties this product to be free from defects in material and / or workmanship, under normal conditions, use and service, for a period of 1 year from the original invoice date. Proof of purchase is required for warranty consideration. This warranty covers the product only and does not cover extra costs such as but not limited to, demolition, decking, or additional labor.



RADIUS CUT GUIDE



WATERFALL RADIUS CUT GUIDE FOR PVC

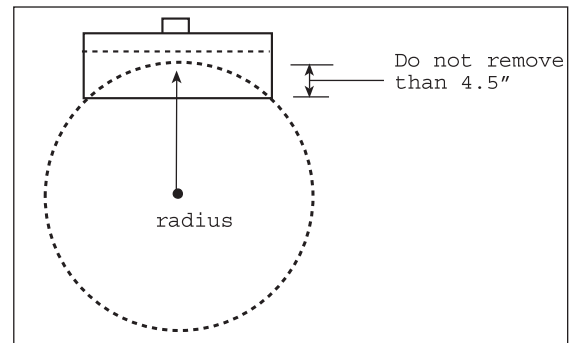
Note: Never remove more than 4.5" of the extended lip, leaving a minimum of 1.5" of lip. The top of the beam, where the Island Waterfall unit is to be installed should be a minimum of 9" thick.

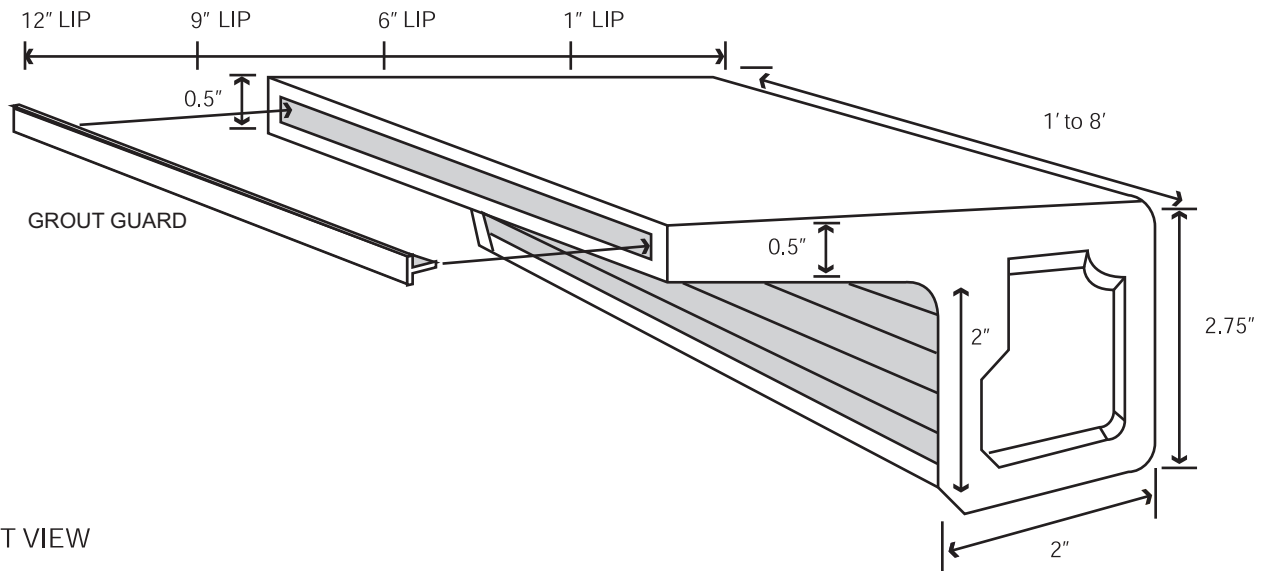
When designing custom curves for the Island Waterfall extended lip models, please refer to the following Minimum Radius Table to select the correct waterfall model. Some models accommodate very tight radius curves and are available by special order.

ATTN: *Fiber lit, Island Waterfalls can not be radius cut in the field.* Cutting a fiber lit fall will destroy the lighting properties and void warranty. Radius cut, fiber lit sheer falls are only available as a custom factory build.

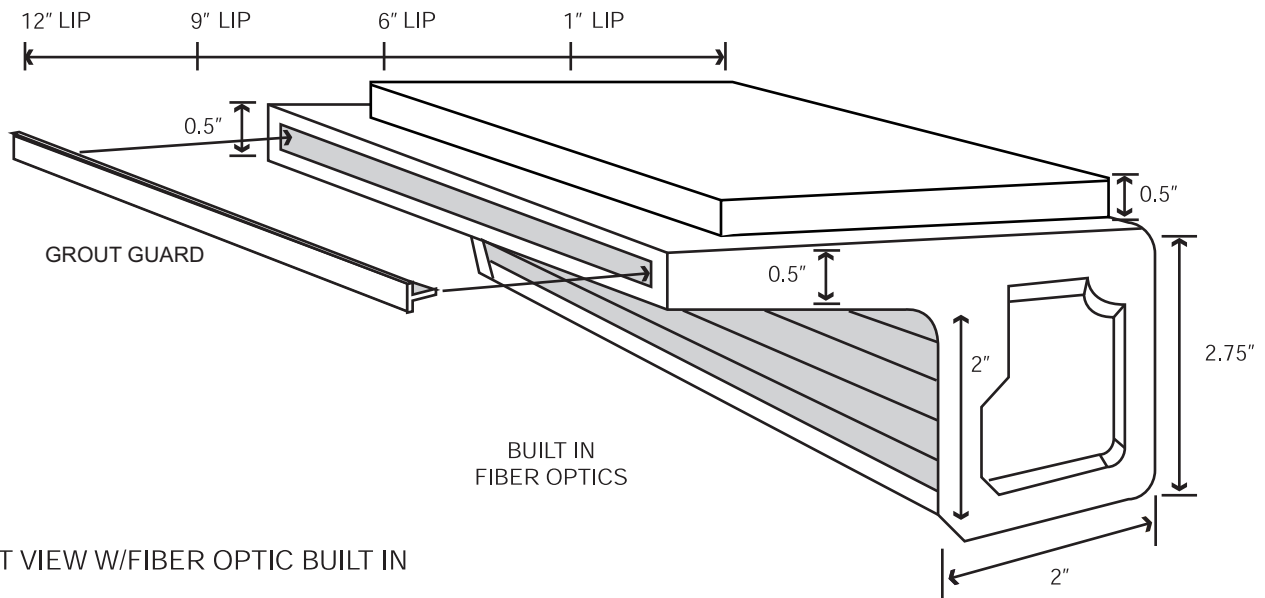
Please contact Fiberstars for details.

MINIMUM RADIUS PER WATERFALL LENGTH	
1' long fall	= 1' and up
1.5' long fall	= 1.5' and up
2' long fall	= 2' and up
3' long fall	= 3' and up
4' long fall	= 4' and up
5' long fall	= 5' and up
6' long fall	= 6' and up
7' long fall	= 7' and up
8' long fall	= 8' and up

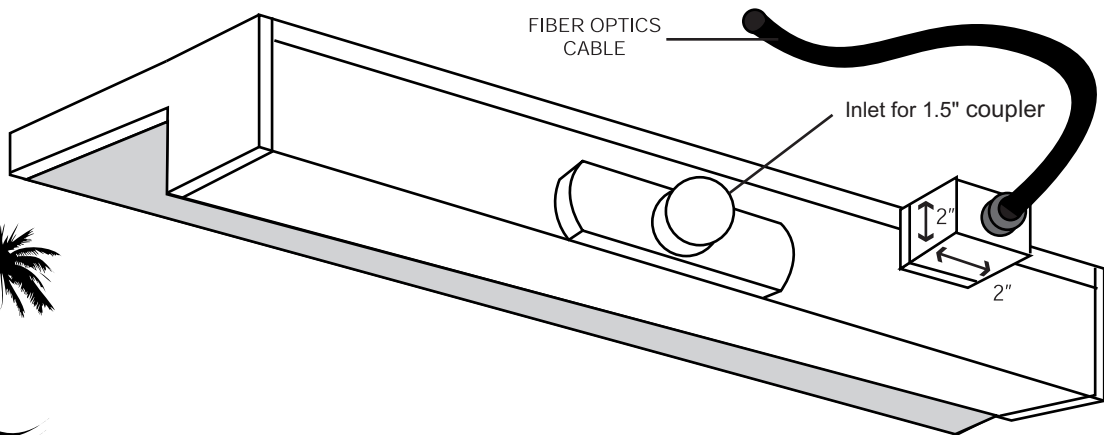




FRONT VIEW



FRONT VIEW W/FIBER OPTIC BUILT IN



BACK VIEW

