

# WATERFALLS



## INSTALLATION AND OPERATING INSTRUCTIONS

AstralPool Waterfalls are designed to add the perfect finishing touch to any size swimming pool or spa. Simple to install to any new or existing pool. AstralPool waterfalls come in a variety of styles and sizes that can be perfectly cut to fit around any pool shape.



- Silkflow Waterfalls are one of the most popular waterfalls on the market. It creates a beautiful silk flow effect.
- The Cascade Waterfalls create a beautiful texture and tranquil, mesmerizing sound to enhance any swimming pool.



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## INTRODUCTION

Congratulations on your purchase of an AstralPool Waterfall. Waterfalls are available in standard widths of 300mm to 2400mm with Lip sizes of 20mm and 150mm.

This Waterfall must be installed according these instructions otherwise the Warranty may be void.

Proper installation will also ensure many years of trouble free use and enjoyment.

## BEFORE INSTALLATION

Take care not to damage the Waterfall during installation. It is best to keep it in its original packaging until you are ready to begin the actual installation.

Check Waterfall for correct model before Installing

Maximum height above water level is the width of the waterfall up to a 900mm maximum.(refer Table 4 page 6)

### DO NOT LEAVE UN-INSTALLED WATERFALL IN DIRECT SUN LIGHT

The waterfall is shipped with protective Red Tape over the waterfall lip opening. Do not remove this until you are ready to use for the first time. Leave in place throughout the installation to protect the opening from grout and dirt.

## INSTALLATION

A dedicated plumbing line is recommended for all waterfalls. Waterfalls up to 900mm can use 40mm PVC pipe but it is recommended that 50mm PVC pipe be used for all installations and **must be used** where the required flow rate exceeds 200 ltr/min(refer or the total pipe length exceeds 20 metres. The waterfall must be installed before the deck and coping are layed to cover the Waterfall..

**The Waterfall must be installed on a water supply line that incorporates filtration or rocktrap to prevent debris from blocking the water outlet.**

**NOTE: If the Waterfall is not level when installed the water flow will be un-even!  
Shims may be used under the waterfall to level  
Ensure that the Red Tape on waterfall outlet is in place at all times during Installation.**

1. Glue the Rock Trap as close as possible to the inlet so that it will extend beyond the mounting surface. Refer to Fig 1. on Pg 3.
2. It is recommended that 50mm pipe is used for all installations using a 50/40 reducer coupling to connect the Rock Trap.
3. Make a notch, cutout or penetration in the mounting wall face 20mm longer than the length of the waterfall.
4. When installing waterfalls in a sprayed concrete or brick walls, **do not tie the waterfall to the Reinforcing Steel or spray in the concrete as they can distort and cause internal damage due to excessive stressing and movement however**; provide a penetration using polystyrene or wood, allowing for connection of the pipe work at rear. The Waterfall can then be installed at a later date once the wall has set.

**WATERFALLS ARE NOT DESIGNED TO TAKE HEAVY WEIGHTS AND IF THEY ARE NOT SUPPORTED PROPERLY CAN SERIOUSLY AFFECT THE OVERALL PERFORMANCE OF THE WATERFALL .**

5. Knock out the penetration and place the waterfall in the notch, cutout or penetration made on the mounting surface leaving a 10mm gap at each end.

**NOTE: EXTENDED LIP (150MM) MODELS MUST BE SUFFICIENTLY SUPPORTED UNDER THE LIP.**

6. Place the Waterfall on a flat smooth level surface in the correct location.
7. Level the waterfall, using packers where necessary.
8. Use Mortor/ Flexible Adhesive to set the waterfall in place.
9. Ensure the Waterfall stays in a level position while the mortar/Glue is setting.

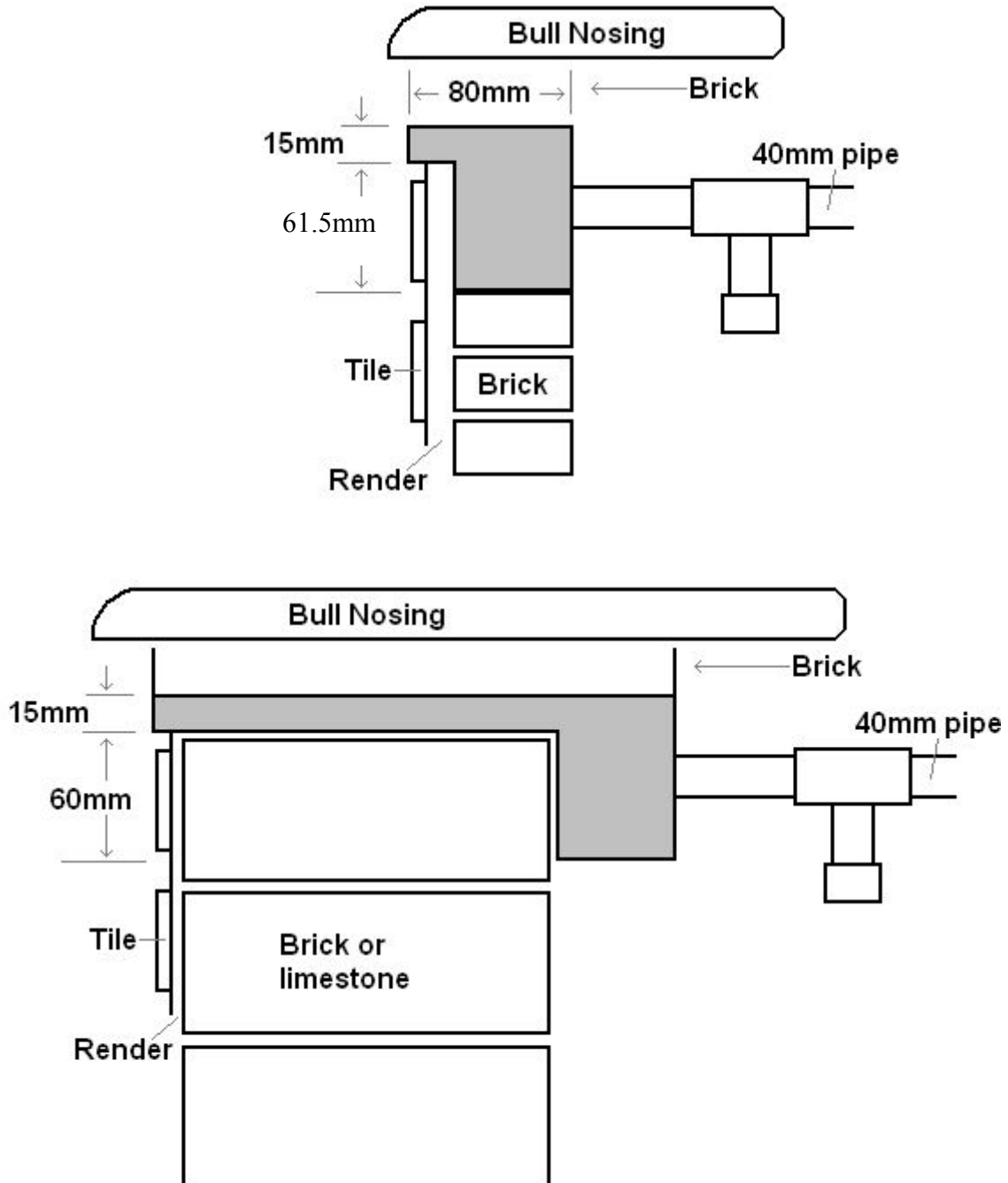
10. Ensure the waterfalls lip edge will be flush with the finished wall surface, refer Fig 1.
11. Fill in the area below and in the back with mortar.
12. Keep the waterfall shielded from the sun until covered by decking/coping
13. Do not apply torque to pipe fittings. Support all the piping so that the rear of the unit or fitting is not stressed.

### ROCK TRAP

The rock trap filter supplied is to prevent dirt and debris from entering the waterfall. Below is a diagram showing where it should be mounted. For best results mount the rock trap as close to the inlet of the waterfall as possible. The rock trap should always be installed pointing downward.

For best results to ensure fittings are properly bonded, clean both pipe and fitting with Priming Fluid and smear both parts with Solvent cement. When assembling Slightly twist the pipe when pushing it into the fitting, hold in place until glued.

**Figure 1**



## PUMP SELECTION.

Below is a guide as to the pump size required to operate your waterfall efficiently and effectively.

Note; If installing more than one waterfall Eg; 2 x 1200, you now have 2400 waterfall so you must use what is required for a 2400 waterfall to run both.

### PUMP SIZE (Approximate) for WATERFALLS

Silkflow Waterfall Length	Required Water Flow - ltr/min/m	Typical Pump Size – Hp	AstralPool Pump (at 8m Head)
300mm	50	0.50	E 140
600mm	100	0.50	E 170
900mm	150	0.75	E 230
1200mm	200	0.75	CTX 280
1800mm	300	1.50	CTX 360
2400mm	400	2.00	CTX 500

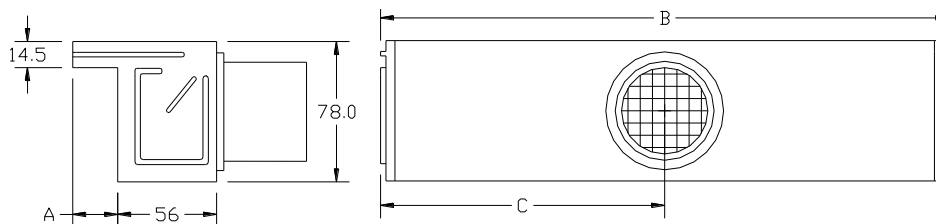
Cascade Waterfall Length	Required Water Flow - ltr/min/m	Typical Pump Size – Hp	AstralPool Pump (at 8m Head)
300mm	25	0.50	E140
600mm	50	0.50	E140
900mm	75	0.50	E140
1200mm	100	0.50	E170
1800mm	150	0.75	E230
2400mm	200	0.75	CTX 280

## PIPE INLET LOCATION

The Silkflow waterfall comes in two lip sizes 20mm and 150mm (Dimension A).

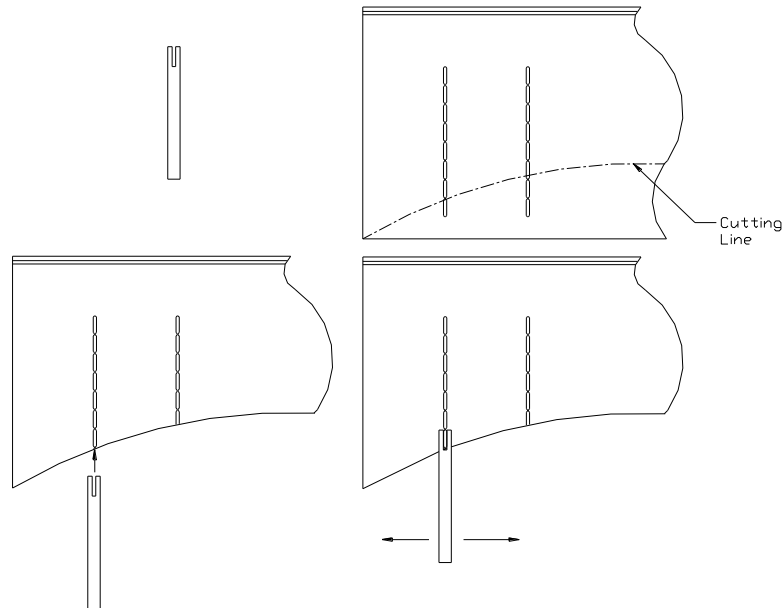
Below outlines all the available waterfall sizes and pipe outlets. This also applies to Cascade waterfalls but they are not available in 150mm lips

B Waterfall Length (mm)	C (mm) Single outlet waterfalls
300	150
600	300
900	450
1200	600
	<b>Dual outlet waterfalls</b>
1800	450 FROM EACH END OF THE WATERFALL(900 CENTRES)
2400	600 FROM EACH END OF THE WATERFALL( 1200 CENTRES)



## Cutting 150mm Waterfall's Lip

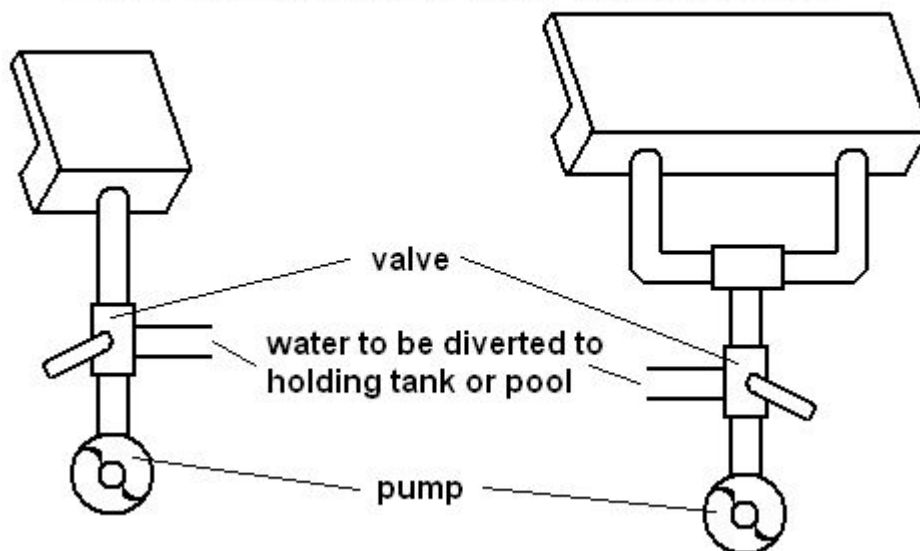
Waterfalls with Larger lips can be cut to suit the shape of the installation. Ensure no debris is inside the lip. Use the tool provided to remove any partial links remaining after the lip is cut. Then remove one full link from each spacer. Move the tool left to right repeatedly until the link/s of the spacers breaks off.



## Flow Control

**A two way valve must be installed** on the outlet/s of the waterfall pump in an accessible area to control the amount of water that exits the waterfall. It will also reduce the risk of damage on start up. Have the valve half open on start up and reduce or increase depending on the desired waterfall effect you wish to achieve.

## Correct plumbing for single unit with valve



**Waterfalls naturally become narrower** as they fall. Below is a recommended guide for the height your waterfall should be installed above the water surface.

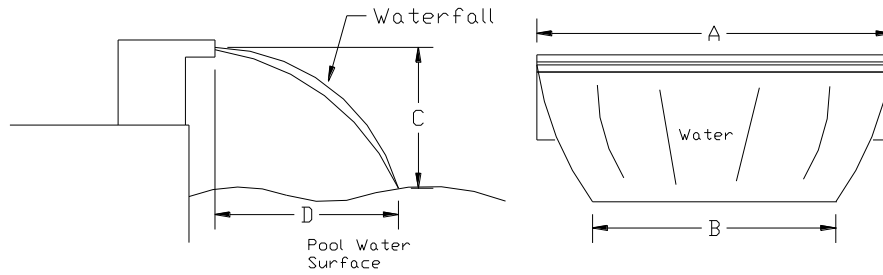


Table 4

<b>A – Waterfall Length</b>	<b>B – Waterfall Width at Pool Surface at Recommended ltr/min/m</b>	<b>C – Recommended Waterfall Height</b>	<b>D – Water Distance at Recommended ltr/min/m</b>
300mm	200mm	300mm	300mm
600mm	500mm	600mm	300mm
900mm	800mm	900mm	300mm
1200mm	1100mm	900mm	300mm
1800mm	1700mm	900mm	300mm
2400mm	2300mm	900mm	300mm

## **WARRANTY**

Your AstralPool Waterfall has been manufactured to the highest of standards and each individual waterfall has been wet tested to ensure correct performance and reliability.

The AstralPool Waterfall is covered by a limited 12 month warranty against defects in materials and assembly from the date of purchase plus 30 days (to allow for installation).

The warranty includes the rectification of any defects in materials or faulty workmanship. It **excludes** any repairs required to surroundings and supporting structures.

The warranty is only considered valid if the installer visually inspects the product prior to installation and deems it to be of a satisfactory condition for installation. AstralPool assumes no liability for consequential damages of any kind.

## **Limitations**

The warranty shall not apply and is not limited to, any parts or materials which have been subject to accident, negligence, alteration, abuse or misuse whether intentional or by accident. AstralPool shall is not responsible for any consequential damaged of any kind whatsoever. The warranty shall applied only to waterfalls installed where the water is filtered and sanitized.