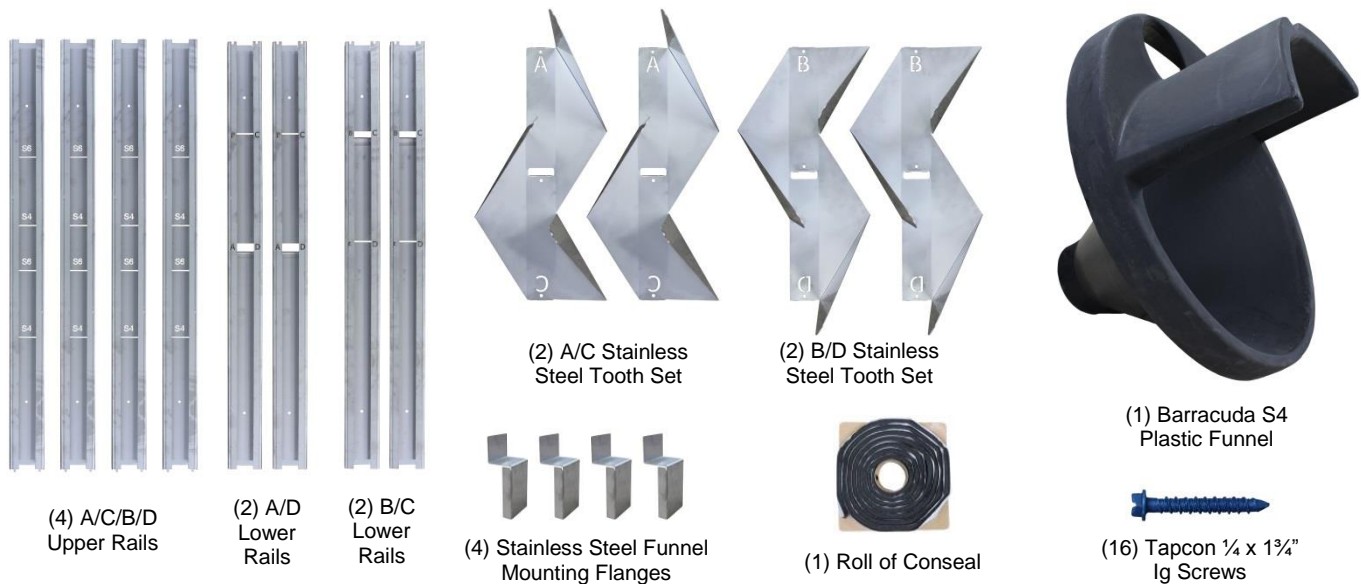


Installation Guide

BaySaver Barracuda™ S4 Concrete Installation Guide

September 2018

This installation guide is reference for installing the Barracuda S4 Water Quality Unit into a 48" precast concrete structure. The components of the Barracuda S4 Concrete Package are as follows:



Please check to make sure that all components are on site. A pair of pliers and a screw driver may be needed to aid in sliding the stainless steel tooth sets in the rail.

1. First determine the location of the inlet and outlet. Then determine the centerline location of the teeth from the approved drawings supplied by BaySaver. Mark the structure with a vertical line and using a level make sure that the line is plumb to the C/L location.
2. On the drawing it will indicate which tooth location is labeled "A/D" and which location is labeled "B/C". Mark the location in the structure with a marker to make sure that the assembler puts the correct tooth in the correct location.
3. Next, locate an "A" location, set the "A/D Lower Rail" vertical in the structure so that the bottom of the rail rests on the bottom of the structure. See Figure 1. Notice that the "A/D" Tab is bent 90° to the rail. This limits the height to determine the correct vertical location of the tooth.
4. Making sure that the lower leg is plumb vertical, mark the hole locations with a marker and drill with the Tapcon 3/16" drill bit. Install the Lower Rail with the provided Tapcons making sure not to overtighten the rail and distort the profile. Figure 2.
5. Continue to install the rest of the lower rails as you have done in the previous steps.



Figure 1



Figure 2



6. After all the lower rails are installed, take the first upper rail and with the rail in the correct orientation, mark the holes taking care that the rail is plumb vertical. Figure 3.
7. Drill the marked locations with a Tapcon drill bit. Holding the upper rail in the proper location and orientation, install the Tapcons into the holes taking care not to overtighten the Tapcons distorting the profile of the rail.
8. After all (4) rails are attached, double check that there are no interferences at the top of the rail.



Figure 3

The following steps may be completed from the top of the structure if the structure height allows.

9. Next, slide the correct tooth set into the rail by inserting the “T” on the back of the tooth set, making sure that the A or D and B or C is in the up position and in the correct quadrant. The letter in the up position should correspond with the letter identified on the approved drawing. The tooth set will slide, making sure not to bend the rail or tooth set. If the tooth set stops sliding, you may have to check for interferences and or apply slight force to make the tooth set slide into location. The stop on the lower rail will stop the tooth in its dedicated height. Figure 4.
10. If you install the tooth sets into the wrong location, you can use a screw driver to force the locking tab back while you slide the tooth set back up the rail.
11. After the tooth sets are installed and double checked to make sure they are in the correct location, you can now install the Funnel Mounting Flanges. Figure 5. The Funnel Mounting Flange will slide into the rail and set so that the Horizontal bend is stopped at the top of the rail. This will allow a “Shelf” for the Barracuda S4 Plastic Funnel to rest on.
12. After all of the flanges are installed in the rails, carefully lift the Barracuda S4 Plastic Funnel into place taking care of the location or orientation of the weir in relation to the inlet and outlet so that it matches the custom drawing provided by ADS. Figure 6. After the Barracuda S4 Plastic Funnel is resting in place, unroll the Conseal and wedge the Conseal between the Barracuda S4 Plastic Funnel and the concrete structure creating a “seal” between the structure and the Barracuda S4 Plastic Funnel. The Conseal should also be used to seal between the vertical edges of the weir and the structure. There is one roll of Conseal that can be used.
13. After the Conseal is installed, the installation of the components is complete, the top slab can now be set and the installation of the Barracuda S4 is complete. In the event an open grate is being used to allow surface water to enter into the Barracuda unit directly, care should be taken to ensure the slab is oriented so that the grated open will be located over the inlet side (bowl side) of the Barracuda plastic funnel



Figure 4



Figure 5



Figure 6

For information on the maintenance please refer to our Barracuda Maintenance Manual.