



Hydra ARS

A Stormwater Trash Capture Solution

INSTALLATION MANUAL

INSTALLATION

The Hydra ARS requires minimal time and tools for installation. The system is especially designed to be the easiest system on the market in install. Generally, the system can be installed into the basin from the curb opening. The end mounting brackets are adjustable and require only one wedge anchor per side. The center mount is pressure fitted to the top and bottom of the curb opening with now need to drill into the concrete.



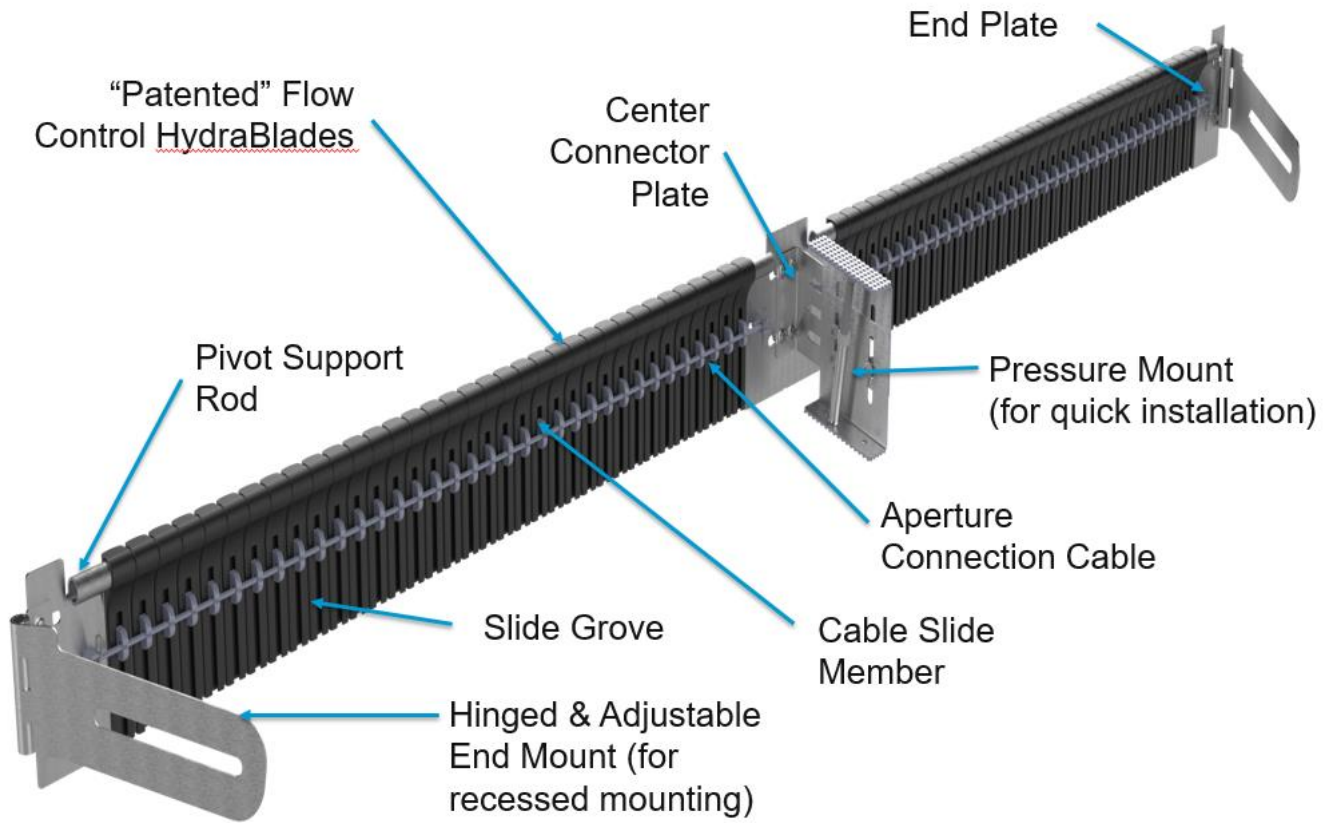
It is recommended that the catch basin be cleaned during time of install as the install can be used as opportunity to do so. Also, this will allow the client to accurately observe the effectiveness of the Hydra ARS from preventing trash and debris from entering the basin.

Requirements:

The contractor shall furnish all labor, equipment, materials, and incidentals required to install the ARS and appurtenances in accordance with the contract documents. Any damage to the existing drainage structure (retrofit applications) or surrounding infrastructure that may need to be repaired to allow for proper installation of the ARS shall be considered incidental and to be paid for at no cost to the client. Bio Clean does offer installation services in certain areas. Please contact Bio Clean for more information on pre-authorized 3rd party contractors that can provide install service in your area.

The manufacturer of the Hydra ARS does provide a warranty against defects in materials and workmanship for a period of 5 years from the date of acceptance by the Engineer. The Hydra ARS also carries a 2-year warranty on installation.

Components:



Tension Regulators

Optional Tension Regulator Allows for Adjustment Based On Catch Basin Flow Conditions



HYDRA® Blade



Hydra Blades Are Plastic Injection Molded Out of Durable UV Resistant Resin



Clevis Pin Cable Quick Release

Tools:

- Marker – Sharpie
- Tape Measure
- Square – Straight Edge
- Grinder – Cut off blade
- Hammer (recommend 2lbs sledge hammer)
- Level 24"
- RotoHammer w/ 3/8" x 6" concrete bit
- 9/16 wrench
- Impact Drill with 9/16 socket (not required)



Hardware:

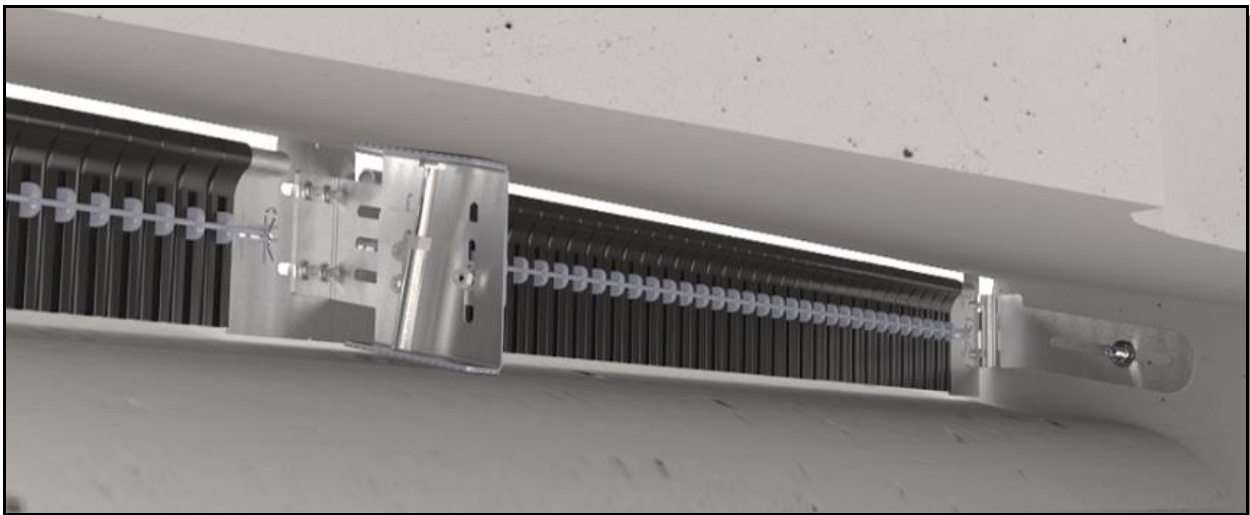
- 3/8" x 2 3/4" Wedge Anchors
- 3/8" x 1 1/2" Nuts & Bolt, Washers
- Tringle Mounting Bracket
- Slotted "L" Bracket



Installation:

1. Before cutting the child safety bar, you must slide the ARS unit into the drain opening for a test fit. If the unit slides in, pull the units back out and cut the child safety bars off if necessary. Do not cut the vertical support bars off.
2. Set the ARS unit(s) in front of the drain numerically from left to right.
3. Verify that the end brackets fit into the catch basin correctly. If they do not fit, modify the bracket keeping in mind of the bracket holes that need be used to secure the swiveling bracket.
4. Remove swiveling bracket from back of unit and place into each end section making sure that the bracket leaves 1"-1.5" of clearance for the final ARS installation. Mark the bracket final location making sure the bracket sits at desired vertical angle in the basin. Please note that these can be angled differently dependent on type of catch basin to make sure optimal trash capture.
5. Hammer drill the marked holes and secure in the swiveling bracket into the wall.
6. Remove tensioner spring from back of the unit and slide bracket off of top support bar. Secure bracket into one side of curb using the hex bolts and hex wrench for that particular size.
7. Slide support bar back into bracket and verify that unit fits into basin correctly. Remove Swiveling bracket from unsecured side and repeat steps 4 and 5 securing the swiveling bracket to the inner wall of the catch basin. ****Please note this step will be different if multiple units are strung together. Please refer to 3 steps for multiple units****

- a. Loosen tension bracket so that it can be easily adjusted.
 - b. Verify length of first unit and slide into place the tension bracket that is included so that front bracket holes line up with the first section of holes on the tension bracket.
 - c. Add structural caulking adhesive onto the tensioner bracket so that bracket stays in place and tighten the unit to fit the catch basin walls
 - d. Attach front bracket hex screws to the tension bracket and repeat steps to fully install the complete basin
8. If unit is too long for the catch basin, remove the unsecured bracket from the support rod leaving the curb blades and support rod in the catch basin.
 9. Measure the amount that is needed to be removed from the top support bar. Pull off necessary amount of blades to have a clear cut onto the support bar. Cut the top support bar to fit the new sized catch basin and replace the necessary amount of blades to make a seamless front ARS unit.
 10. Dethread the retaining pin and cut the spring to the desired amount and tension. Rethread the retaining pin screw and secure tension spring to the back of the unit.
 11. Place front bracket onto swiveling bracket and secure using hex wrench.
 12. Verify that each blade moves independently and that the desired tension is in the spring.
 13. If there is a need to add or remove tension to the system, adjust lateral tension screws on the front bracket to make the unit have more or less tension into the system.



**For Installation Support
Please Contact Us At:
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