



Installation Procedures

StormTreat Systems highly recommends supervision by a STS representative during installation to assure proper configuration and system functionality and are available upon request.

Installation steps are as follows:

1. Excavate an area approximately 15 feet by 15 feet or an area large enough to contain the entire system and to a depth of approximately 5 feet (to an elevation one foot below the bottom of the units) for each Storm Treat System unit. Excavate additional areas for inflow and discharge pipes (specific to the design plans).
2. Pour crushed stone or sand (depending on system configuration) base and level to the base design elevation of the floor of the STS units. All tanks must be at the same elevation.
3. Lower Storm Treat Systems units into place using a sling hanging from a backhoe or, in sensitive areas, place by hand with crew.
4. Connect inlet and outlet piping and install outlet control valve (PVC ball valve is recommended). Access to valve must be provided in order to set and control system flow rate.
5. Pour 6 to 8 50lb bags of bentonite into bottom of wetland area completely covering the seam between the sediment chamber and the tub floor. Cut geotextile landscape fabric into approximately 2 foot by 4 foot pieces to cover the floor of the wetland area and cover bentonite. (This process is designed to complete the seal between the sediment tank and the outer wetland tank, and is generally carried out by the StormTreat representatives attending the installation.)
6. Carefully fill wetland container with 1/4 to 3/8 inch washed rice stone. It is important the rice stone be naturally sorted, or bank run, and is carefully washed to eliminate fines. Unwashed or silted stone will result in clogging and system failure. Covering the lid of the tank with a piece of landscape

fabric will protect the lid from scratches and will keep stone and dirt out of the pent bolt openings.

7. Backfill excavation around tanks with 3/4 inch crushed stone or native soil (depending on system configuration).

8. Plant wetland plants, provided from nursery as "plugs", approximate size of 12-18 inches in height. Wetland plant species may vary by region and local conditions as advised by nursery. However, we recommend bullrush and woolgrass (*Scirpus*) as generally adaptive to most conditions. Consult with local nursery or StormTreat representatives for recommendations for other species.

9. Set outlet valve to a flow rate of 2 gallons/minute/tank. To do so the inlet pipes inside the sediment chamber must be plugged and the tanks must be filled with water to a depth of 2.5 feet. The outlet flow rate can be found using a timed measurement of the outflow and controlled by adjusting the pvc ball valve.

10. Thoroughly water installed plants twice a week for the first 6-8 weeks or until they show signs of adaptation.

Please contact us with any questions to ensure proper installation and performance.

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