# DIVERSION TUBE STACKING SLEEVE (STANDARD SERIES)

AIRE Environmental Standard Series Diversion Tube Stacking Sleeve (SSDTSS) is a system that allows for stacking of Standard Series Diversion Tubes. Utilizing a SSDTSS increases system loft height, improving floodwater protection and system stability. The SSDTSS is a triple tube system that functions by utilizing downward load and compression from a single upper tube into the cradle of lower tubes retained within each sleeve.

## PREPARATION

Selecting the proper number of stacking sleeve systems is dependent on the length of tube you will be running. Each sleeve system section is approx. 6ft in length and should be positioned with a maximum spacing of 3ft between sleeves. (Some exceptions may apply)

## INSTALLATION

1. With the fill flanges positioned upward, lay out the two lower tubes alongside each other and along the intended deployment path. Be sure to clear out any debris that might damage a tube during fill up and fill any surface voids that would allow for water seepage. Build up any potential low points by filling with dense non-porous soil or sand bags.

2. Lay out each stacking sleeve system in the correct up/down orientation with the upper tube sleeve visible along the top centerline. Note that each upper sleeve has a full-length zipper that allows the upper sleeve to be fully opened. Opening the upper sleeve aids in the final step of positioning the top diversion tube.

3. Slide each stacking sleeve system around the two lower tubes that have been positioned along the deployment path. Each tube will fit within a designated sleeve of the stacking sleeve system. Slide each sleeve incrementally approx. 1 ft at a time until that sleeve section has reached its operational position. Continue this process with subsequent sections until all required sections of stacking sleeve are in place around the tubes. Maximum spacing between sections of sleeve is 3 ft (some exceptions may apply).

4. To install the top tube through the top sleeve first unzip all top sleeve zippers allowing the top sleeves to fully lay open. Unroll the top tube over the fully opened top sleeves so the fill flanges are facing upward. Once the top tube is fully unrolled, start at one end and start to rezip the top sleeves enclosing the upper tube into each sleeve. Make sure there are no folds or twists in any of the tubes. Once all of the top sleeves have been fully rezipped, find the supplied zip ties and install around the zipper tail as it extends past the edge of the sleeve. This will lock the zipper, not allowing it to unzip once the Diversion Tubes are filled with water. **TO AVOID DAMAGE TO THE DIVERSION TUBES, DO NOT DRAG TUBES AT ANY POINT.**

5. After completion of positioning of the upper tube within the top sleeve sections, water filling can proceed through each tube's fill flange. ***Filling of the two bottom tubes is required before the upper tube.** Optional Diversion Tube Fill Adapters will aid in the tube filling process.

6. Fold back each end of the upper tube to expose the lower tube's fill flanges and attach Fill Adapters (sold separately) if using.

7. Fill the lower tubes in stages alternating between each tube. This will help to stabilize the system from tube roll and/or shifting during initial fill up. ***(Not alternating between tubes can cause system instability during initial fill up and can result in tube shift and/or roll)***. Each diversion tube is outfitted with a fill flange on each end of the tube. Use the flange opposite of the one being used to fill as a release valve to purge out any trapped air in the tubes.

8. Once the bottom tubes are filled, filling the top tube can begin. Note that each section includes staking tabs that are accessible from both sides of the system used for adding guy lines if additional support is needed.

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