

Design Guidelines

REV. 1

8/13/13

The **StormTank[®] Shield** is, a stormwater treatment device, intended to improve the treatment efficiency of sumped inlet water quality BMP's. By installing a **StormTank[®] Shield** in any sumped inlet, debris and contaminants with a density less than water are prevented from exiting the inlet during the first flush of runoff. This increases the treatment efficiency of the BMP, while also increasing the flow length and time of concentration that is vital to particle settling.

StormTank[®] Shield Design Guidelines:

1. **StormTank[®] Shield** hood shall enclose the entire opening area of the outlet pipe.
2. **StormTank[®] Shield** sizing should be selected to ensure flow capacity is not reduced beyond the capacity of the upslope system (tailwater condition).
3. The stormwater structure, to contain a **StormTank[®] Shield**, shall be sized to contain a minimum 36" deep internal sump (for increased treatment, the sump should be a minimum 2.5x pipe diameter).
4. The structure shall be installed to ensure a watertight seal at all joints and penetrations. It is recommended that all seals be made with a gasket or mastic (or equal).

