

## Initial Stormwater Treatment Technology by Using Recycled EPP(Expanded Polypropylene)

<b>New Technology</b>	Initial Stormwater Treatment Technology by Using Recycled EPP(Expanded Polypropylene)	<b>Certificate</b>	GT-12-00121
<b>Model Name</b>		<b>Application Part</b>	Water quality
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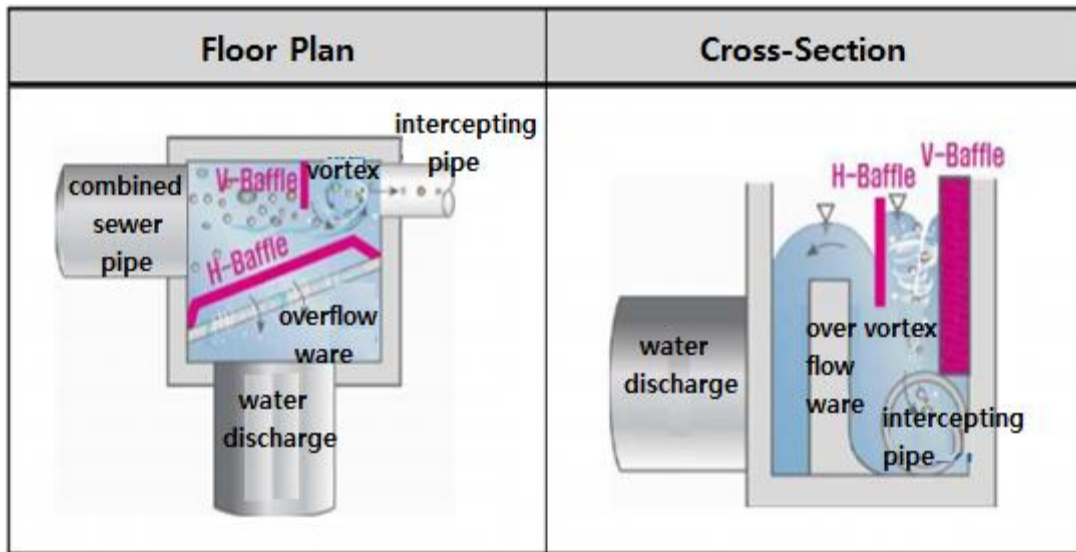
### 1. Outline

- Technology to treat floating pollutants in combined sewer overflows (CSOs) by installing recycled polypropylene(H-baffle and V-baffle) in stormwater storage facilities

### 2. Characteristic

- Generating vortex in the direction of the intercepting pipe by installing a V-baffle(vertical control panel) on the front of the intercepting pipe
  - Possible to control floating pollutants of overflowing water and to prevent secondary pollution by the pollutants by generating vortex
- Suppressing the water level decrease in the direction of overflowing by installing H-baffle(guide wall) at the front of the overflowing water
  - Since the screen is installed horizontally, uniform filtration is possible regardless of the level or flow rate.
- Improving the treatment efficiency as floating pollutants are removed by introducing them into the intercepting pipes
- Economical because it can be additionally installed in existing stormwater storage facilities
- Easy to supplement the system in case of the occurrence of change through post-monitoring
- Reducing the concerns about facility failures by using simple hydro-dynamic principles

### 3. Introduction



[Figure1] Technical Process Diagram

### 4. Application

- Field of application: Water quality
- Development stage: Development completed
- Technology coverage
  - Removal of pollutants in water (sewage treatment plants and stormwater treatment plants)