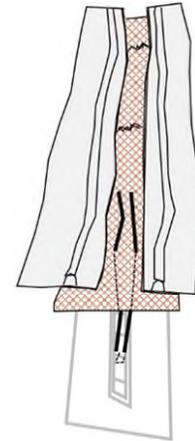
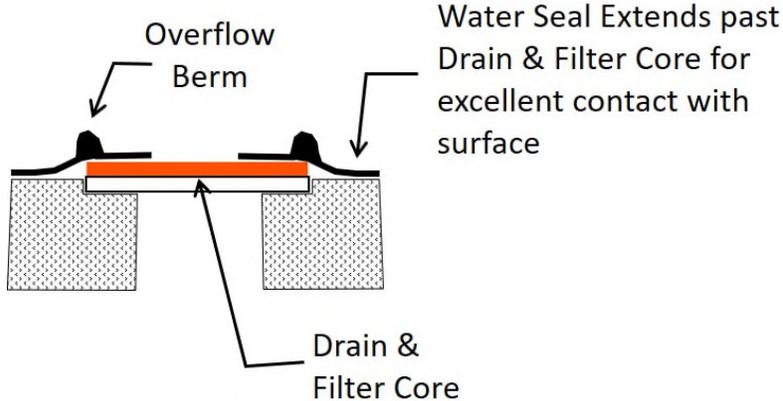


SWPPP Binder Insert - Drain Inlet Protection

ERTEC Slot Guard™



Definition – ERTEC Slot Guard™

A temporary or semi-permanent sediment and debris filter with a perimeter berm and filter designed to protect slot or trench drain inlets. Place device over the grate near where soil is disturbed.

Purpose

Slot/Trench drain inlet protection is used to intercept sediment laden water at the grate opening and prevent sediment and debris and associated pollutants from entering the storm water underground pipe systems. Slot Guard™ is a better alternative to installing gravel or sand bags on open slots and trenches during construction. The system reduces water velocity which causes heavier soil particles to fall out above ground. While allowing flow through the module, the barrier filters certain smaller sized particles from suspension and prevents them from flowing through the device and into the pipes. Advantages are that it is effective, durable, re-usable, easily installed, cleaned, and removed.

Conditions Where the Practice Applies

It is recommended for use over openings with small drainage areas. Generally, the drainage areas should be less than 1/3 acre and the total for inlets in series should be 1 acre or less with slopes flatter than 5 percent in the contributing drainage area.

Design Criteria

- Bypass: Slot Guard must provide a filter-free area for bypass of high flows.
- Perimeter Berm: Slot Guard must have at minimum a 1" perimeter berm.
- Module weight = 3 to 8 lbs. Unit height = 1.5". Width must be wider than slot opening.
- Service temperature (deg F) = -30 to 160.
- Choose correct size and place Slot Guard so that it covers the slot or trench drain. Anchor method: Tie Slot Guard to the slot drain with tie wire. Run tie wire thru the Slot Guard and down thru the slot drain opening and around the cross bars and back up thru the Slot Guard. Tie-off on top by twisting. Attach on 2.5' centers minimum.

Maintenance

Perform maintenance as required. Inspect following rainfall events and at least daily during prolonged rainfall. Clean periodically to provide an adequate sediment holding capacity. Debris shall be removed daily and sediment shall be removed when the sediment accumulation reaches 1 inch. Removed sediment and debris shall be incorporated in the project at designated locations or disposed-of outside the project or in conformance with requirements.



Slot Guard™
ERTEC Environmental Systems
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