

**Drain Inlet Protection System for Slot or Trench Drain Inlets  
Sediment and Debris Control  
GUIDE SPECIFICATION**

**PRODUCT:**  
**Slot Guard™**

**MANUFACTURER:**  
ERTEC®  
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**1.0 Description:**

Work covered under this item consists of installing a Slot Guard™ inlet protection system for slot or trench drain inlets. The purpose is to minimize silt and sediment and stop debris from entering the storm drain system.

**2.0 Material:**

Provide a low profile grate inlet protection device:

- **Size.** Furnish low profile grated drain inlet protection device with a maximum vertical berm height of 2 in and a gasket that is long and wide enough to seal and prevent underflows.
- **Structure.** Furnish low profile grated drain inlet protection device manufactured from non-biodegradable materials. It shall be UV stable, resist cracking or performance deterioration from sunlight for 4 years. System shall be recyclable at the end of life. Service temperature shall be from -30 to 160 deg F.
- **Flow Rate.** Furnish low profile grated drain inlet device with a minimum clean water flow-through rate of 200 gallons per foot per minute and a percentage-open-area of 15%.
- **Single unit Construction:** Furnish low profile grated drain inlet protection device as a single unit assembly.
- **High flow bypass:** Furnish low profile grated inlet protection device which has an area that allows flow during high flow conditions.
- **Underflow Seal:** Furnish low profile grated inlet protection device with an underflow seal to prevent sediment laden water from flowing under the filtering system.
- **Secure Attachment:** Furnish low profile grated inlet protection device with grate attachment systems allowing rapid installation, flush fit above ground and secure attachment.

**3.0 Installation:**

1. **Placement:** To select proper size, see installation instructions Table 1. Place Slot Guard™ on top of slot or trench drain grate. DO NOT remove trench or slot drain grate. Slot Guard shall extend at least 2 inches beyond grate in each direction. Overlap Slot Guard™ units lengthwise for long trench drains.

2. **Anchor methods: A)** Attach with 16 gauge tie-wire. Cut wire to 12" lengths. On 2.5' centers, feed one end of wire down through Slot Guard, around grate bar, and back up thru Slot Guard. Above ground, twist wires several times and snip off excess.
3. **Clean:** Accumulation of leaves, debris and sediment can cause backups! Clean after every storm, or as necessary.
4. **Protect:** In stop-and-go traffic areas where exposed to constant tire abuse, it is useful to place traffic cones or delineators on or near Slot Guard to discourage run-overs. Slot Guard stands up to run-overs well, but does not survive long in constant stop-and-start traffic.

#### **4.0 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. Unit can be removed, washed and reinstalled. Removed sediment and debris shall be incorporated in the project at designated locations or disposed of outside the project or in conformance with requirements.

#### **5.0 Method of Measurement:**

- **Low Profile Drain Inlet Protection Device.** Low profile drain inlet protection device size will be based on length of slot or trench drain.

#### **6.0 Basis of payment:**

- **Low Profile Drain Inlet Protection Device.** The work performed and materials furnished in accordance with this item and measured as provided under "Measurement" will be paid "per linear foot" of trench drain protected. This price is full compensation for furnishing, placing, maintaining, and for permanently removing the low profile drain inlet protection device from the project, and for all other materials, labor, tools, equipment, and incidentals.
- Removal of drain inlet protection device will not be paid for directly but is subsidiary to the installation item. When the Engineer directs that the drain inlet protection device installation or portions thereof be replaced, payment will be made "per linear foot" of trench drain protected, which is full compensation for the removal and reinstallation of the drain inlet protection device installation.