

SPECIFICATIONS

PRETREATMENT

SCOPE

These specifications apply to the performance, materials and manufacture of storm water pretreatment units supplied by Soleno.

SETTLING UNIT REQUIREMENTS

The storm water pretreatment unit shall be supplied by Soleno Inc. and shall comply with these materials and performance specifications based on the inlet diameters and outlets diameters, and the pretreatment unit itself.

RAW MATERIALS

The storm water pretreatment unit shall be manufactured from high-density polyethylene (HDPE) resin.

- HDPE resin: the pretreatment unit must be made of high-density resin, with high molecular weight (HMW). Resin shall meet the criteria of standard ASTM D3350-02 with minimum cell classification 345420C.
- **Physical properties of the resin**
 - The filtration system shall be made from high-density polyethylene (HDPE) resin that complies with standards ASTM D3350.
- **Chemical properties of the resin**
 - HDPE resists corrosion, as it is not an electrical conductor.
 - Biological resistance is unaffected by microbial organisms.
 - It can be used in applications with pH values ranging from 1.5 to 14 due to its inert molecular structure.

JOINT PERFORMANCE

- The storm water pretreatment unit shall be made from Solflo Max type HDPE pipes and shall be made with smooth interior wall and corrugated exterior wall.
- Inlets and outlets are HDPE extrusion-welded inside and outside the structure.
- The pretreatment inlet shall be positioned in compliance with site requirements and confirmed by shop drawings.

FRAMES AND COVERS

- For non-roadway use, frames and covers shall be made from S series cast iron.
- For roadway use, adjustable cast iron frames and covers are furnished in options.

DIMENSIONS AND QUANTITIES

Dimensions and quantities shall comply with tender documents and drawings.

INSTALLATION

Installation will be made according to the Soleno's recommendations. Contact the Soleno representative in your region or visit our website at www.soleno.com for installation recommendations.