

Z886 Perma-Trench HDPE 6" Drain System

GRATE TYPE: HEEL PROOF LONGITUDINAL DUCTILE IRON MEETING ADA REQUIREMENTS (GHPDE)

Z886 Applications

- Highways
- Industrial Parks
- Overpasses
- Commercial Parks
- Kitchens
- Food Processing
- Parks
- Shopping Malls
- Parking Lots
- Industrial Parks
- Gas Stations
- Pharmaceuticals
- Airports
- Assessment Parks
- Highway Hangers

Installation Specification

Z886 System Highlights

- Integral Rider Edge
- Modular Cover Construction
- Concrete HD Frame Assembly
- 90° Fabrication
- The Fabrication

Engineering Specification

Channels shall be 60" long, 6" wide, and have a 4" wide flange. Modular channel sections shall be made of High Density Polyethylene (HDPE), have interlocking ends, and tapered bottom. Channel shall be provided either flat (standard) or with a 2% back slope. Channels shall be available with inserts ranging from 1/2" to 12/16". Channels shall have clips welded into the sides of the channel to accommodate vertical bars for positioning and anchoring purposes. Channels of sizes A, B, C, D, E, and F grates shall be available with H-20 and/or FAA load ratings, and/or ADA compliant with mechanical lock-down devices. End caps and catch basins shall be available to complement the channels and grates. End caps, custom grates, and side outlets shall be available in 2", 3", 4", and 6" channels. Trench depth shall be 6"-10" (model 3806).

Trench Number	Stock Length (ft)	Depth (in)	Max. Flow Rate (GPM)	Approx. Weight (lbs)
8801	1.00	6.00	110	2.0
8802	1.50	6.00	110	3.0
8803	2.00	6.00	110	4.0
8804	2.50	6.00	110	5.0
8805	3.00	6.00	110	6.0
8806	3.50	6.00	110	7.0
8807	4.00	6.00	110	8.0
8808	4.50	6.00	110	9.0
8809	5.00	6.00	110	10.0
8810	5.50	6.00	110	11.0
8811	6.00	6.00	110	12.0
8812	6.50	6.00	110	13.0
8813	7.00	6.00	110	14.0
8814	7.50	6.00	110	15.0
8815	8.00	6.00	110	16.0

Z886 System Profile

STANDARD MANHOLE FRAME AND COVER

2016 ROAD & BRIDGE STANDARDS

SECTION A-A
SECTION B-B

TOP
BOTTOM

2016 ROAD & BRIDGE STANDARDS

ROAD AND BRIDGE STANDARDS
SHEET 224
REVISION DATE
224
302

STORMTANK

Maintenance Guidelines

General:

The StormTank™ Stormwater Storage Module is a component in a stormwater collection system, providing storage for the detention or infiltration of runoff. No two systems are the same; with varying shapes, sizes and configurations. Some include pre-treatment to remove sediment and/or contaminants prior to entering the storage area and some do not. Systems without pre-treatment require greater attention to system functionality and may require additional maintenance.

In order to sustain system functionality Brentwood offers the following general maintenance guidelines.

Precautions:

- Prior to & During Construction - Siltation prevention for the stormwater system.
 - Conform to all local, state and federal regulations for sediment and erosion control during construction.
 - Install site erosion and sediment BMP's (Best Management Practices) required to prevent siltation of the stormwater system.
 - Inspect for maintenance erosion and sediment BMP's during construction.
- Post Construction - Prior to commencing the StormTank™ system.
 - Remove any properly designed construction erosion and sediment BMP's per all local, state and federal regulations. Care should be taken during removal of the BMP's as not to allow collected sediment or debris into the stormwater system.
 - Flush the StormTank™ system to remove any sediment or construction debris immediately after the BMP's removal. Follow the maintenance procedure outlined.

Inspections:

Follow all local, state, and federal regulations regarding stormwater BMP inspection requirements.

Brentwood Industries makes the following recommendations:

- Frequency
 - During the first service year a visual inspection should be completed during and after each major rainfall event, in addition to semi-annually, to establish a pattern of sediment and debris buildup.
 - Each stormwater system is unique and multiple criteria can affect maintenance frequency such as:
 - System Design: pre-treatment/no-pretreatment, inlet protection, stand alone device.
 - Surface Area Collecting From: hardscape, gravel, soil.
 - Adjacent Area: soil runoff, gravel, trash.
 - Seasonal Changes: fall-leaves, winter-salt/cinders.

Maintenance Procedures:

- Conform to all local, state and federal regulations.
- Determine if maintenance is required. If a pre-treatment device is installed, follow manufacturer recommendations.
- Using a vacuum pump truck evacuate debris from the inflow and outflow points.
- Flush the system with clean water forcing debris from the system. Take care to avoid extreme direct water pressure when flushing the system.
- Repeat steps 3 and 4 until no debris is evident.

These maintenance guidelines were written by Brentwood Industries, Inc. with the express purpose of providing helpful hints. These guidelines are no to be construed as the only Brentwood approved methods for StormTank™ system maintenance or the final authority in system maintenance. Check with the stormwater system owner/project engineer for their contract/specification requirements and or recommendations. Contact your local StormTank™ distributor or Brentwood Industries for additional technical support if required.

Revision: 7/26/12 P: 610-374-5109 F: 610-736-1280 Email: Stormwater@brentwoodindustries.com 1 of 2

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COMMONWEALTH OF VIRGINIA
R. RANDALL ROYAL
Lic. No. 14950
8/24/18
PROFESSIONAL ENGINEER

KHA PROJECT: 116607003
DATE: 08/24/2018
SCALE: AS SHOWN
DESIGNED BY: LEY
DRAWN BY: LEY
CHECKED BY: JY

DRAINAGE DETAILS

WAWA AT NEWTOWN AND STONEY POINT
PREPARED FOR WAWA

CITY OF NORFOLK VIRGINIA

SHEET NUMBER CG-503

NO. REVISIONS DATE BY

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