



JAY R. SMITH MFG. CO.®
MEMBER OF MORRIS GROUP INTERNATIONAL



Enviro-Flo® II Trench Drain System Competitive Comparison Guide

Jay R. Smith Mfg. Co. 9930 Enviro-Flo II Trench Drain
Over
Zurn Z-886 Trench Drain



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1) MATERIAL COMPOSITION

Feature:

Jay R. Smith Mfg. Co. 9930 series channel body is manufactured from 100% black polypropylene material and the Zurn Z-886 is manufactured from polyethylene material. Both materials offer excellent chemical resistance along with being lightweight.

Enviro-Flo II advantage(s):

Smith's 9930 channel is black in color and has superior UV resistance over the Z-886 that is gray in color.

The black color of the 9930 series channel section has a neutral appearance vs. the gray color of the Z-886 channel sections and blends in well with different job materials/finishes.





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2) BODY LENGTHS

Feature:

Jay R. Smith Mfg. Co. Enviro-Flo II channel sections are produced in one meter (39.37") lengths and one-half meter (19.68") lengths and the Z-886 channel is 80" long.



Enviro-Flo II advantage(s):

Enviro-Flo II channel sections are lightweight and can be easily be pre-assembled up to six channel sections (19'-8") allowing for quicker installation without using screws for the channel joints as required for the Z-886 system.



Enviro-Flo II channel sections are 1 meter (39 3/8") long and the Z-886 channel section is 80" long. The 1 meter channel sections have less of an issue with thermal expansion and contraction as they are shorter than the Z-886 channel section. The Z-886 longer channel sections may be subject to warping and bowing due to thermal expansion and contraction.

Enviro-Flo II channel sections are lighter and more compact which results in lower shipping and handling costs. The Z-886 channel sections are 80" long which require non-standard pallets that take up more space on the trailer when shipped.





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3) INSTALLATION AIDS

Feature:

Jay R. Smith Mfg. Co. Enviro-Flo II channel sections have molded rebar clips on each end and each side of the channel. The Enviro-Flo II is also available with the Rante-Arrow II installation device.

Enviro-Flo II advantage(s):

Enviro-Flo II channel sections each have four (4) molded rebar clips on each end and each side of the channel section.

Enviro-Flo II is also available with the Rante-Arrow II, which is designed as a labor saving product to allow for side-to-side and vertical adjustment of the channel sections and allows for a monolithic concrete pour.

Integral Rebar Mount



Rante Arrow Mount

Provides vertical and horizontal adjustments for quick and easy leveling.

4) CONNECTIONS

Feature:

The Enviro-Flo II channel sections have mechanical interlocking joints with alignment tab and closing end/horizontal outlet caps that have the same mechanical interlocking joint feature.

The Z-886 channel sections have a lap joint that requires screws to hold it together.



Enviro-Flo II advantage(s):

The Enviro-Flo II channel sections have mechanical interlocking joints with an alignment tab that requires no screws and ensures that alignment integrity is maintained. The Z-886 channel sections are designed with a lap joint that is held together with self-tapping screws.

The Enviro-Flo II trench drain is designed with easy assembly closing end caps and horizontal outlet caps that require no screws. The Z-886 channel must be “saw cut” on the deep end before the end cap or horizontal outlet cap can be attached with screws; screws are required to attach the shallow end cap.



Male Coupling

The male coupling allows two male channel ends to be joined together, offering contractors greater flexibility to make adjustments in the field.

The Enviro-Flo II channel sections are provided with a standard 4” molded no-hub vertical outlet on each channel section. Also available is a 4” vertical outlet adaptor that can be snapped in place anywhere on the channel. The Z-886 vertical outlet needs to be fabricated to the channel section by sawing off the rib and screwing the 4” outlet adaptor to the bottom of the channel.



Vertical Outlet Adaptor

The vertical outlet adaptor attaches to the Enviro-Flo II accessory rail to create an outlet anywhere on the channel.



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5) CONCRETE ANCHORING

Feature:

The Enviro-Flo II Channel section has a molded anchor rib that runs the full length of the channel section on each side of the channel. The Z-886 channel has minimal features molded into the channel to do the same.

Enviro-Flo II advantage(s):

The Enviro-Flo II has an integral frame that has a molded anchor rib that runs the full length of the channel section on each side of the channel to ensure the system is properly anchored into the concrete once it is installed. The Z-886 channel has molded anchor supports along the channel in different locations that anchor the channel to the concrete.

The Enviro-Flo II has a flat frame edge allowing easy installation for pavers.



Molded anchor rib that runs the full length of the channel section on each side of the channel.





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6) ANGLED BODY CONNECTIONS

Feature:

The Enviro-Flo II channel sections can be fabricated in angles, corners, and T sections in any depth trench both in neutral and sloped sections.



Enviro-Flo II advantage(s):

Jay R. Smith Mfg. Co. has highly skilled craftsmen that produce custom miters, corners, and T section fabrications that are shipped pre-fabricated to connect to standard Enviro-Flo II channel sections in the same manner as the other channel sections. The Z-886 channel sections are also available in custom fabrications when specified.





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7) CATCH BASINS

Feature:

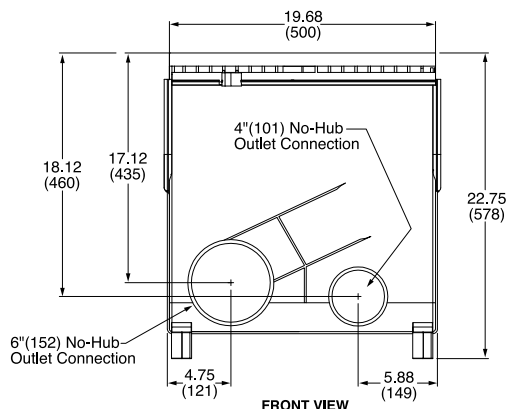
The Enviro-Flo II in-line catch basin is designed with a molded mechanical interlocking joint and molded 4" or 6" no-hub horizontal outlet connections. The Z-886 catch basin requires an adaptor and securing screws to attach a channel section to the catch basin.

Enviro-Flo II advantage(s):

The Enviro-Flo II in-line catch basin has a molded mechanical interlocking joint that accepts the channel section. The Z-886 catch basin requires an adaptor that has to be cut to height to match the mating channel and attached to the catch basin requiring screws which requires more labor for installation.

The Enviro-Flo II in-line catch basin has molded 4" and 6" no-hub horizontal outlet connections. The Z-886 catch basin has side outlet flanged outlet adaptors that must be sealed and secured to the side of the catch basin, requiring more labor for installation.

The Enviro-Flo II in-line catch basin has molded rebar clips located at the bottom of the catch basin to stabilize it during the concrete pour. The Z-886 catch basin also has integral rebar clips, but they are located at the top of the catch basin and are subject to being broken off when the rebar is being hammered in place.



8) GRATE LOCKDOWNS

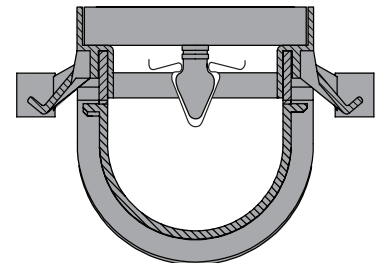
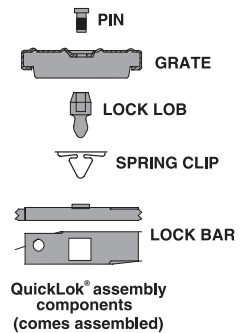
Feature:

The Enviro-Flo II system grates are supplied with the Quick-Lok® securing feature that is boltless and spaced every ½ meter. The Z-886 system requires a securing screw and toggle bar that can become loose and unsecured.

Enviro-Flo II advantage(s):

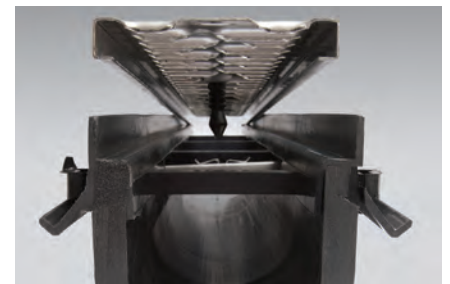
The Quick-Lok grate securing feature with stainless steel spring clip locking bar allows the grate to be removed and replaced without the use of securing screws and removes the possibility of the grate not being secured. The Z-886 system utilizes a grate securing screw and a toggle bar to secure the grate to the channel section. The Z-886 grate securing screws can work loose and can be misplaced when cleaning the trench drain causing a unsafe condition.

The Enviro-Flo II Quick-Lok grate securing feature makes sure that the grates are always secured and hazard free, removing the risk of a grate securing screw being lost or removed for convenience. The Z-886 system relies on the maintenance staff to make sure the grate securing screws are installed after cleaning the channel section.



Cross section of 9930 with QuickLok®

Quick-Lok® is a registered trademark of ACO Polymer Products, Inc.

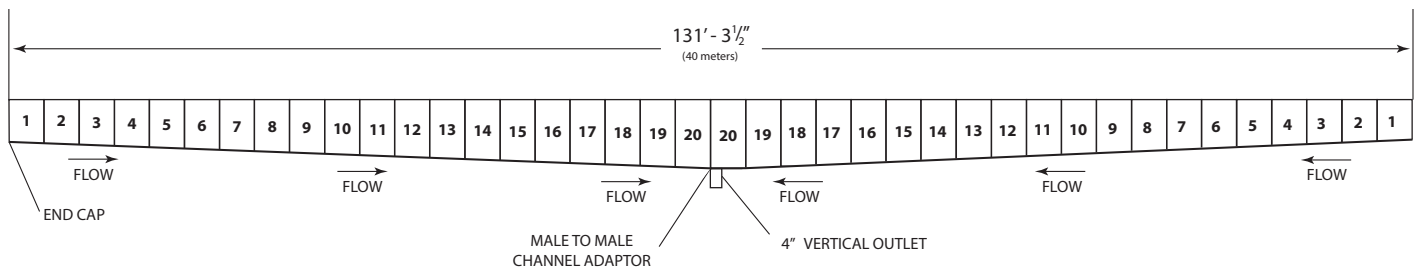




9) LENGTH OF TRENCH RUN

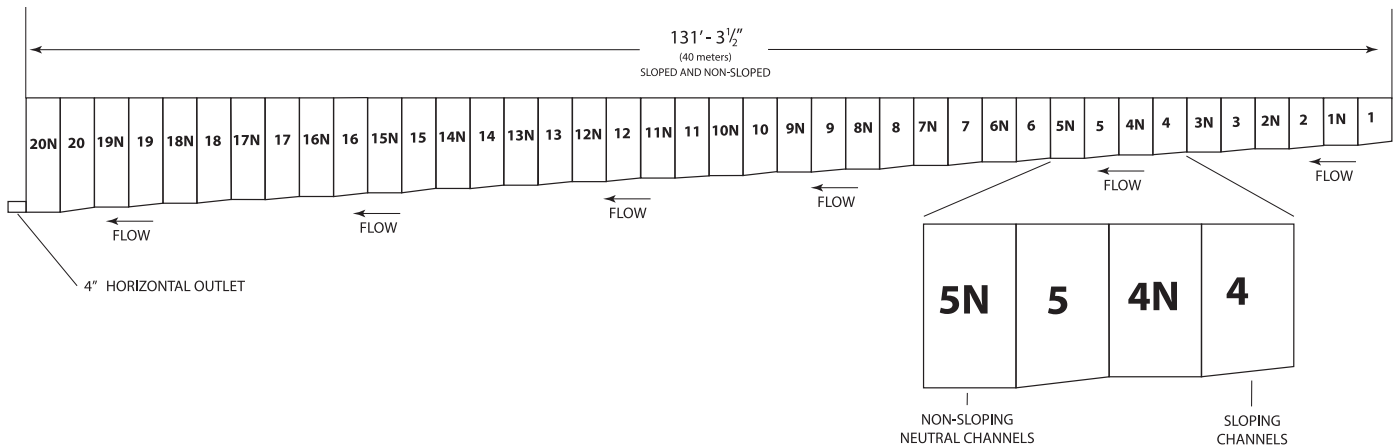
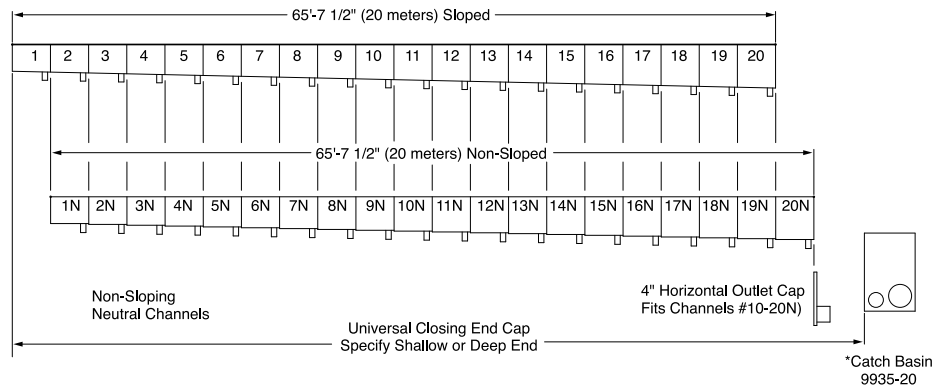
Feature:

The Enviro-Flo II system has 20 (1 meter) long sloped and 20 (1 meter) long non-sloped channel sections. The sloped channel sections are pitched at 0.6 %. The Z-886 system has 15 (80") long channel sections and 3 (80") long non-sloped channel sections. The Z-886 sloped channel sections are pitched at 0.75%.



Enviro-Flo II advantage(s):

The Enviro-Flo II channel sections can be pre-assembled up to 6 meters (19'-8") long by utilizing the mechanical joint connections which reduces installation time. The Z-886 channels must be screwed together to hold the lap joint in place as pre-assembly would be difficult to maintain.





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10) FRAMES

Feature:

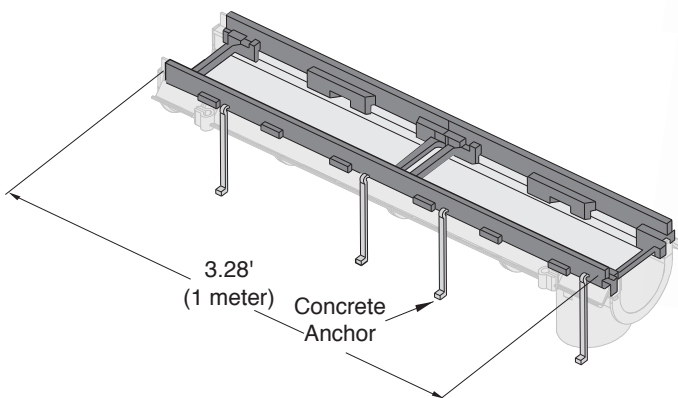
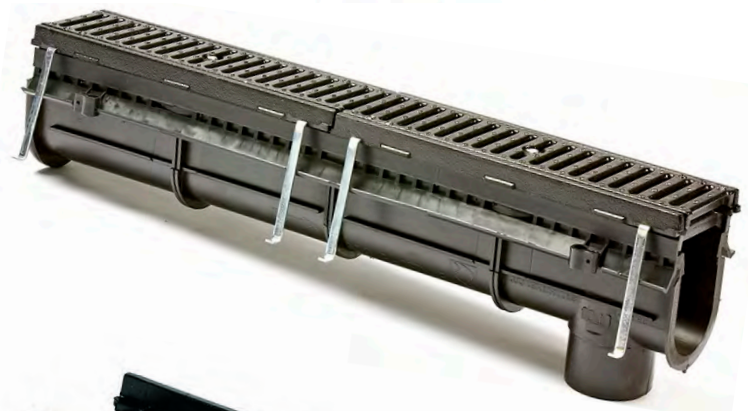
The Enviro-Flo II channel sections are available with load class “A” stainless steel overlay rails, load class “E” ductile iron frames or load class “E” stainless steel frames to meet application requirements. The Z-886 system is available with steel or stainless steel frames as specified.

Enviro-Flo II advantage(s):

The Enviro-Flo II ductile iron frames are supplied with 4 concrete anchors that tie the frame into the surrounding concrete, making it designed for an industrial environment. The Z-886 frames are a welded design instead of the cast ductile iron frames that are available with the Enviro-Flo II system.

The Enviro-Flo II ductile iron frames are available with a galvanized coating when specified. The Z-886 system is also available with a galvanized frame.

The Enviro-Flo II system is available with a load class “A” stainless steel overlay rail and also a load class “E” stainless steel frame. The Z-886 system is also available with a stainless steel frame.





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