

Design and Installation Manual for Infiltrator and Arc Chambers

Indiana



The purpose of this product design manual is to provide specific design and installation information pertinent for the use of Infiltrator chambers in Indiana. All local ordinances, requirements, and procedures must be followed. Each revised version of this manual supersedes the previous version. The configurations presented in this document are common residential designs and are provided for illustrative purposes. They are not intended to restrict the use of other configurations, which may be utilized provided the design conforms to the latest edition of the Residential and Commercial Onsite Sewage Systems Rules (410 IAC 6-8.3 and 410 IAC 6-10.1, respectively), and/or the Indiana Standards for Chamber Trench Soil Absorption Field Technology provided on the Indiana Department of Health website, as applicable.

For more detailed design information, please contact Infiltrator Water Technologies at (800) 221-4436.

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INTRODUCTION

Quick4 Plus Standard Chambers

The Quick4 Plus Standard chamber can be installed in a 36-inch-wide trench. This chamber offers superior strength through its center structural columns. The Quick4 Plus All-in-One 12 Endcap is available with this chamber, providing increased flexibility in system configurations.

Quick4 Plus Standard nominal chamber specifications

Size	34"W x 53"L x 12"H
Effective Length	48"
Equivalency Rating	16.0 ft ² /chamber
Storage Capacity	47.0 gal (6.3 ft ³)
Inlet Invert Elevation	5.3", 8.0", 12.7"

Quick4 Plus All-in-One-12 Endcaps

The Quick4 Plus All-in-One 12 Endcap is the only end cap available for use with Quick4 Plus Standard chambers. The in-line feature allows construction of chamber rows with a center feed, as an alternative to inletting at the ends of chamber rows. Knock-outs on the end, sides and top allow for a variety of inlet and outlet options. Drill points direct installer to appropriate cutting locations.

Quick4 Plus Standard LP and Arc 36 LP-4 Chambers

The Quick4 Plus Standard Low Profile (LP) and Arc 36 LP-4 chambers can be installed in a 36-inch wide trench. These chambers are 4 inches shorter in height than other standard models allowing for shallower installation where a shallow groundwater table, impervious conditions, or other restrictions limit vertical separation distance.

Quick 4 Plus Standard LP or Arc 36 LP-4

Size	34"W x 53"L x 8"H
Effective Length	48"
Equivalency Rating	16.0 ft ² /chamber
Storage Capacity	32.0 gal (4.3 ft ³)
Inlet Invert Elevation	3.3", 9.6"

Quick 4 Plus All-in-One 8 and Plus 8 Endcap

The Quick4 Plus All-in-one 8 and Quick4 Plus 8 Endcaps are used with the Quick4 Plus Standard LP and Arc 36 LP-4 chambers. Knock-outs on the end, sides, and top allow for a variety of inlet and outlet options. The Quick4 Plus 8 Endcap allows installation of a pipe from the end only. This endcap does not provide side-inletting capability. Pipe connection options include drill points for gravity or pressure pipe.

Quick5 Standard Chambers

The Quick5[®] Standard chamber fits in a 36" wide trench and is ideal for curved or straight systems. It features the patented Contour Swivel Connection™ which permits turns up to 10°, right or left. The MultiPort™ endcap allows multiple piping options and eliminates pipe fittings. The chamber's five-foot length provides optimal installation flexibility.

Quick5 Standard nominal chamber specifications

Size	34"W x 65"L x 12"H
Effective Length	60"
Equivalency Rating	20.0 ft ² /chamber
Storage Capacity	57.0 gal (7.6 ft ³)
Inlet Invert Elevation	8.0"

*Effective length for installed pair of endcaps

MultiPort Endcap

The MultiPort Endcap may be used at the end of Quick5 Chambers. Pipe connection options include the end or sides.

QUICK4 PLUS STANDARD CHAMBER



QUICK4 PLUS ALL-IN-ONE 12 ENDCAP



QUICK4 PLUS STANDARD LOW PROFILE (LP) AND ARC 36 LP-4 CHAMBERS



QUICK4 PLUS ALL-IN-ONE 8 ENDCAP



QUICK4 PLUS 8 ENDCAP



QUICK5 STANDARD CHAMBER

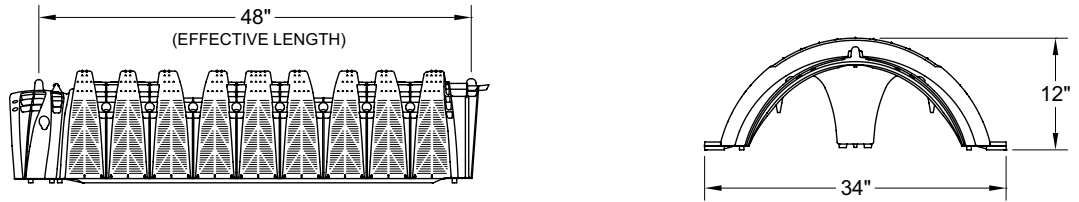


MULTIPOINT ENDCAP

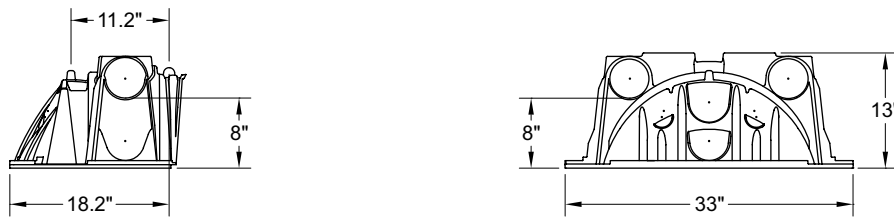


Quick4 Plus Standard Chamber and Endcap System

SIDE AND END VIEWS
(NOT TO SCALE)

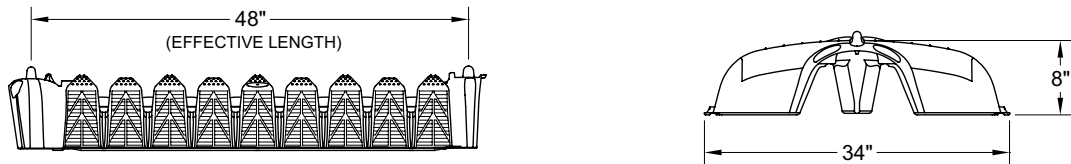


QUICK4 PLUS ALL-IN-ONE 12 ENDCAP SIDE AND END VIEWS
(NOT TO SCALE)

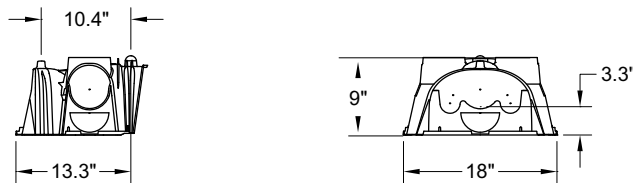


QUICK4 PLUS STANDARD LOW PROFILE (LP) AND ARC 36 LOW PROFILE (LP)-4 CHAMBER AND ENDCAP SYSTEM

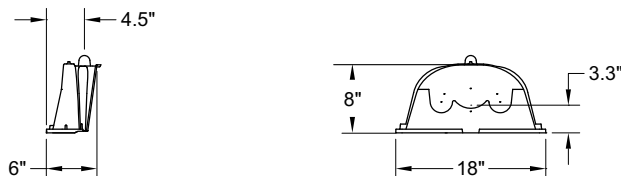
SIDE AND END VIEWS
(NOT TO SCALE)



QUICK4 PLUS ALL-IN-ONE 8 ENDCAP SIDE AND END VIEWS
(NOT TO SCALE)



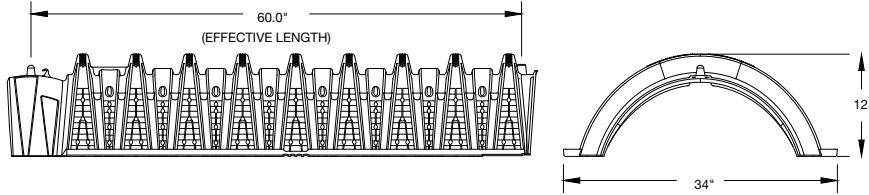
QUICK4 PLUS 8 ENDCAP SIDE AND END VIEWS
(NOT TO SCALE)



PRODUCTS

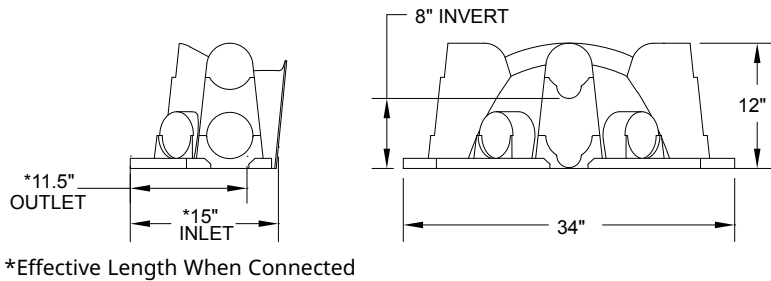
Quick5 Standard Chamber and Endcap System

SIDE AND END VIEWS (NOT TO SCALE)



MULTIPORT ENDCAP SIDE AND END VIEWS

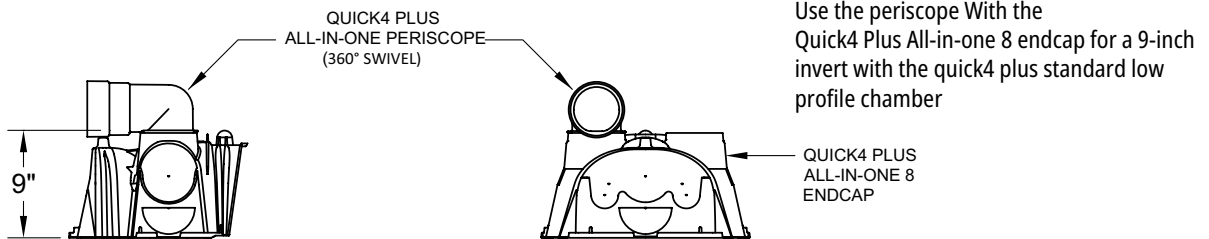
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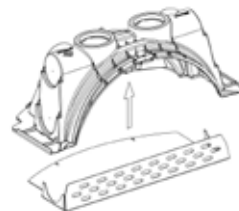
Quick4 Plus Periscope

The Quick4 Plus Periscope can be installed in the top of the Quick4 Plus All-in-One endcaps, allowing for increased inlet invert heights.

SIDE AND END VIEWS (NOT TO SCALE)



NOTE: Systems installed using the Quick4 Plus Periscope require the use of the Quick4 High-Flow Splash Plate. For information on the splash plate, contact Infiltrator Water Technologies.



These sizing charts are for residential systems. Commercial onsite systems may be sized per 410 IAC 6-10 with a 25% reduction in required size.

Sizing of Quick4 Plus and Arc 36 LP-4 Chamber Systems

TABLE 1: QUICK4 PLUS STANDARD, QUICK4 PLUS STANDARD LOW PROFILE (LP), AND ARC 36 LP-4 CHAMBER SIZING FOR 25% REDUCTION - MINIMUM NUMBER OF CHAMBERS AND TRENCH LENGTH*

Load Rate [GPD/ft ²]	Number of Bedrooms and Bedroom Equivalents											
	2			3			4			5		
	Gravel [ft ²]	Quick4 Plus or Arc 36 LP-4	Length* (ft)	Gravel [ft ²]	Quick4 Plus or Arc 36 LP-4	Length* (ft)	Gravel [ft ²]	Quick4 Plus or Arc 36 LP-4	Length* (ft)	Gravel [ft ²]	Quick4 Plus or Arc 36 LP-4	Length* (ft)
1.20	250	19	76	375	24	96	500	32	128	625	40	160
0.75	400	25	100	600	38	152	800	50	200	1000	63	252
0.60	500	32	128	750	47	188	1000	63	252	1250	79	316
0.50	600	38	152	900	57	228	1200	75	300	1500	94	376
0.30	1000	63	252	1500	94	376	2000	125	500	2500	157	628
0.25	1200	75	300	1800	113	452	2400	150	600	3000	188	752

- NOTE:**
1. The chart is to be used with Infiltrator Water Technologies Quick4 Plus Standard, Quick 4 Plus Standard LP, and Arc 36 LP-4 chambers only, substitutions for other products are not permitted.
 2. The minimum invert height for any chamber system is 3.3 inches.
 3. The connected Quick4 Plus Standard, Quick 4 Plus Standard LP, and Arc 36 LP-4 chamber length is 4.0 feet (per chamber). Add length to each trench for endcaps. See Products Section for the lengths of Quick4 Plus endcaps.

Sizing of Quick5 Standard Chamber Systems

TABLE 2: QUICK5 STANDARD CHAMBER SIZING FOR 25% REDUCTION - MINIMUM NUMBER OF CHAMBERS AND TRENCH LENGTH*

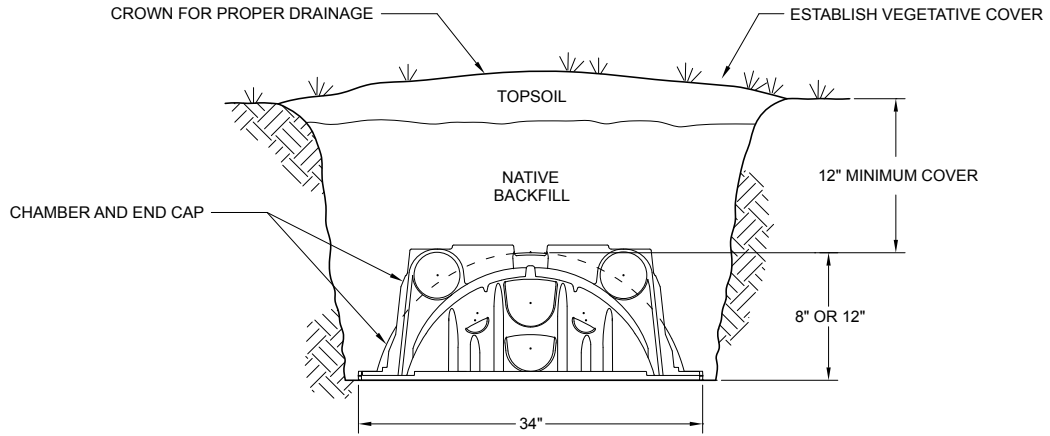
Load Rate [GPD/ft ²]	Number of Bedrooms and Bedroom Equivalents											
	2			3			4			5		
	Gravel [ft ²]	Quick5 Standard	Length* (ft)	Gravel [ft ²]	Quick5 Standard	Length* (ft)	Gravel [ft ²]	Quick5 Standard	Length* (ft)	Gravel [ft ²]	Quick5 Standard	Length* (ft)
1.20	250	16	80	375	19	95	500	25	125	625	32	160
0.75	400	20	100	600	30	150	800	40	200	1000	50	250
0.60	500	25	125	750	38	190	1000	50	250	1250	63	315
0.50	600	30	150	900	45	225	1200	60	300	1500	75	375
0.30	1000	50	250	1500	75	375	2000	100	500	2500	125	625
0.25	1200	60	300	1800	90	450	2400	120	600	3000	150	750

- NOTE:**
1. The chart is to be used with Infiltrator Water Technologies Quick5 Standard chambers only, substitutions for other products are not permitted.
 2. The minimum invert height for any chamber system is 3.3 inches.
 3. The connected Quick5 Standard chamber length is 5.0 feet (per chamber). Add length to each trench for endcaps. See Products Section for the lengths of MultiPort endcaps.

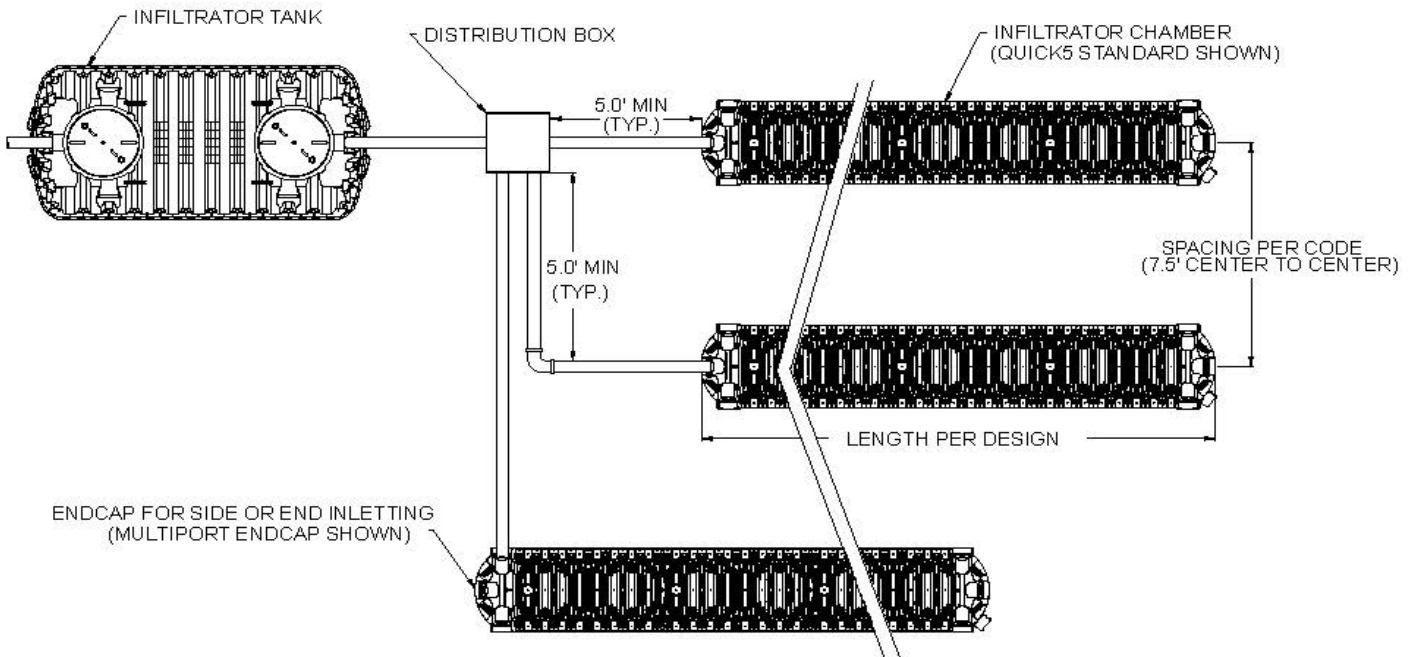
CHAMBER CONFIGURATIONS

Conventional Gravity Trench Configurations

TYPICAL CROSS SECTION (NOT TO SCALE)



TYPICAL SIDE AND END INLET PLAN VIEW (NOT TO SCALE)

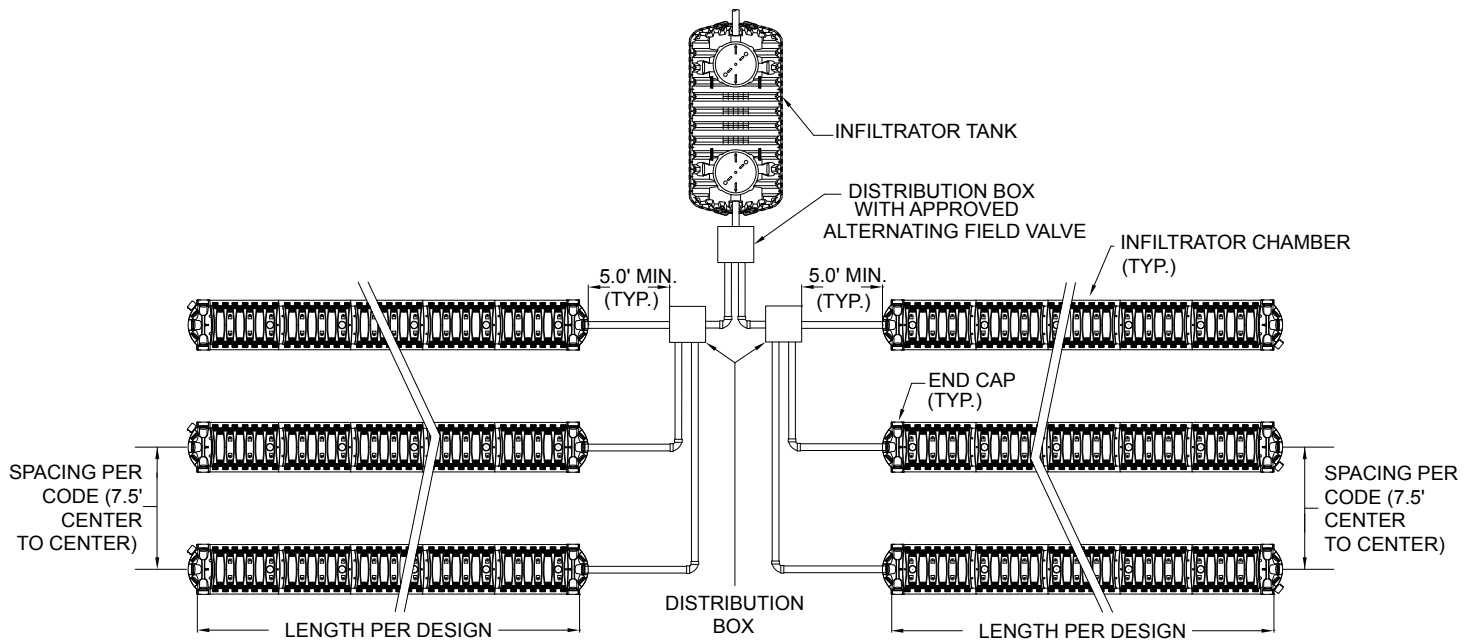


NOTE: Systems should be oriented as long and narrow as the site permits in accordance with the requirements of 410 IAC 6-8.3. For example, four 96 foot-long trenches are preferred over six 64 foot-long trenches (both systems provide 384 feet of total trench length).

Conventional Gravity Trench Configurations

TYPICAL ALTERNATING FIELD PLAN VIEW

(NOT TO SCALE)



SCHEMATIC LAYOUT ONLY, TRENCH LENGTH AND NUMBER OF TRENCHES WILL VARY PER DESIGN.

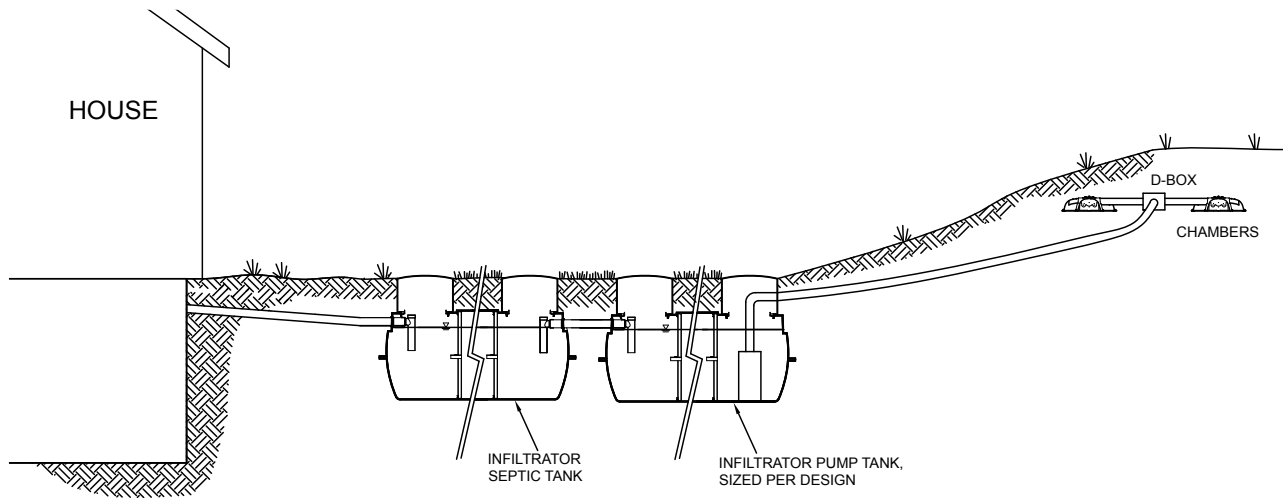
NOTES:

1. A dose tank is required when either side of the field is in excess of 500 linear feet.
2. Systems should be oriented as long and narrow as the site permits in accordance with the requirements of 410 IAC 5-8.3. example, four 96 foot-long trenches are preferred over six 64-foot-long trenches (both systems provide 834 feet of total trench length).

CHAMBER CONFIGURATIONS

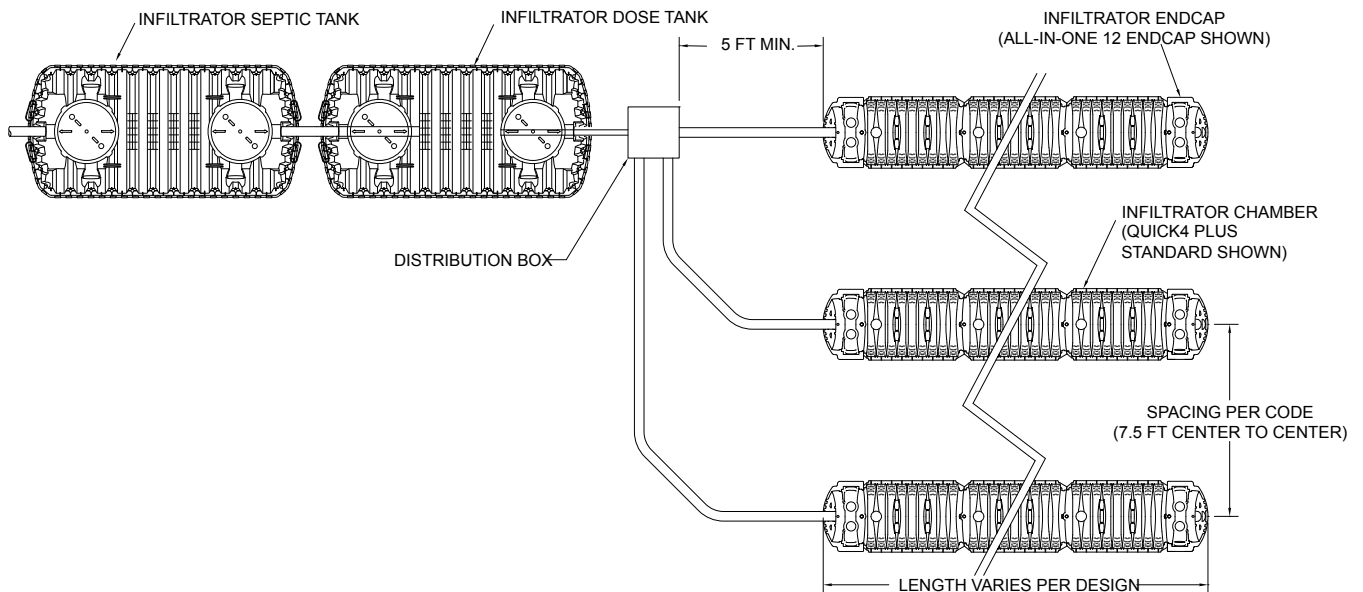
Flood Dosed Systems

In a flood dosed onsite system, the effluent is pumped to a distribution box which receives a predetermined dose volume of effluent. It is then gravity fed to the soil absorption field and distributed to the chamber trenches. In a flood dosed onsite system, the effluent is gravity fed as shown in the figure below.



Flood Dosed Trench Configuration

TYPICAL ALTERNATING FIELD PLAN VIEW
(NOT TO SCALE)

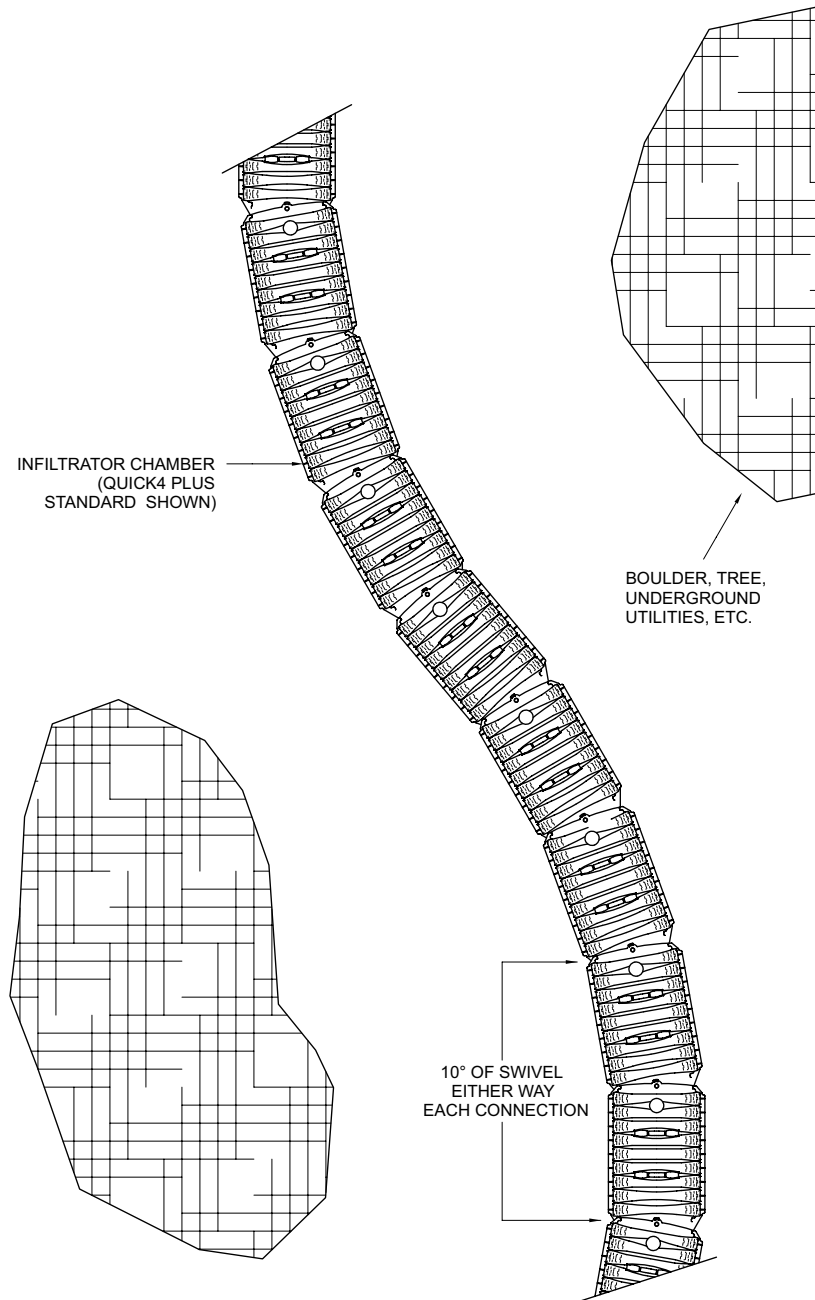


Turn Design Configuration

Contour Swivel Connection™

Infiltrator chambers feature the Contour Swivel Connection, which allows systems to be installed on contour on sloping sites while avoiding obstructions. The chambers easily follow contours or an "S" curve, avoiding obstacles without additional parts or accessories. The Quick4, Quick5, and Arc 36 LP-4 series chamber connection swivels 10 degrees right or left.

TYPICAL PLAN VIEW (NOT TO SCALE)



INSTALLATION INSTRUCTIONS – GRAVITY SYSTEMS

Before You Begin

These instructions are for the installation of Infiltrator chambers in Indiana. These chambers may only be installed according to 410 IAC 6-8.3 and department standards, and local health department ordinances and procedures.

If unsure of the installation requirements for a site, contact your local health department. If unsure of the use of Infiltrator chambers, contact Infiltrator Water Technologies. The soil and site evaluation and the design of the onsite system must be reviewed, and a construction permit obtained from the local health department before installation.

Materials and Equipment Needed

- | | |
|--|---|
| <input type="checkbox"/> Infiltrator chambers | <input type="checkbox"/> Utility knife |
| <input type="checkbox"/> Endcaps | <input type="checkbox"/> 1.25-inch drywall screws* |
| <input type="checkbox"/> PVC pipe and couplings | <input type="checkbox"/> Screw gun |
| <input type="checkbox"/> Backhoe | <input type="checkbox"/> Small valve-cover box* |
| <input type="checkbox"/> Laser, transit or level | <input type="checkbox"/> 4-inch cap Inspection port |
| <input type="checkbox"/> Tape Measure | <input type="checkbox"/> 4.25-inch hole saw |
| <input type="checkbox"/> Shovel and rake | |

*Optional.

These guidelines for construction machinery must be followed during installation.

- Avoid direct contact with chambers when using construction equipment. Chambers require a 12-inch minimum of compacted cover to support a wheel load rating of 16,000 lbs/axle or equivalent to an H-10 AASHTO load rating.
- When installing in sandy soil conditions, wheeled construction equipment is prohibited from crossing trenches during backfilling. Use of tracked vehicles is approved and recommended with only 6" of cover.

Excavating and Preparing the Site

NOTE: Per Indiana Department of Health (IDOH) requirements, soil absorption fields may not be installed during periods when the soil is sufficiently wet to exceed its plastic limit, as this causes machinery to smear the soil. Before installation of chambers, the installer must perform, and the soils must pass soil plasticity tests. Soil plasticity tests include the evaluation of soil samples throughout the chamber system footprint, from the surface to the depth of installation, to ensure that the plastic limit of the soil is not exceeded. The plastic limit of a soil is exceeded when the soil can be rolled between the palms of the hands to produce threads one-eighth (1/8) inch in diameter that do not easily break apart or crumble.

- Stake out location of all trenches and lines. Set elevations of the tank, pipe, and trench bottom.
- Install sedimentation and erosion control measures. Temporary drainage swales/berms may be installed to protect the site during rainfall events.

- Excavate and level 36"-wide trenches with proper center-to-center separation. Verify that trenches are level.
- Remove any large stones and other debris. Use bucket teeth to rake the trench bottom.
- Verify that each trench is level.

NOTE: Special care should be taken to minimize foot traffic on the trench bottom.

Preparing the Endcap

NOTE: Quick4 Plus and Quick4 Plus All-in-One endcaps are available for use with the Quick4 Plus and Arc 36 LP-4 chambers on either end of the trench, depending upon installer's preference and configuration requirements. The Multiport Endcap is available for use with the Quick5 Standard chamber.

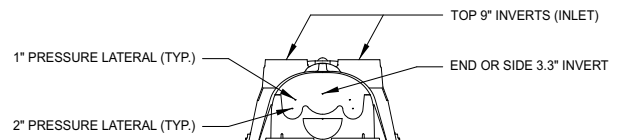
- With a hole saw drill an opening appropriate for pipe diameter being used on front or side of endcap using center point marking as a guide.
- Snap off the molded splash plate located on the bottom front of the endcap.
- Install splash plate into the appropriate slots below the inlet to prevent trench bottom erosion.

NOTE: For gravity and flood dosed SAFs, the bottom of the effluent sewer entering the inlet end plate must be at least three and three-tenths (3.3) inches above the trench infiltrative surface.

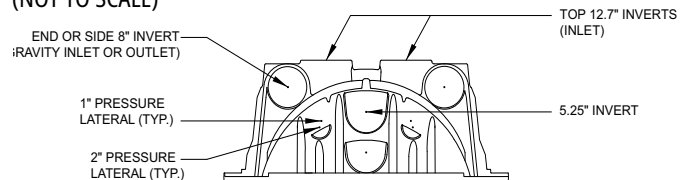


1. Drill endcap.

QUICK4 PLUS ALL-IN-ONE 8 ENDCAP INLET OPTIONS (NOT TO SCALE)



QUICK4 PLUS ALL-IN-ONE 12 ENDCAP INLET OPTIONS (NOT TO SCALE)



INSTALLATION INSTRUCTIONS – GRAVITY SYSTEMS

Installing the Quick4 Plus Periscope

NOTE: Available for use with Quick4 Plus All-in-One 8 or All-in-One 12 Endcap only. Invert options based on system design.

1. With a hole saw drill the pre-marked area on top of the Quick4 Plus All-in-One Endcap.
2. Insert the Quick4 Plus Periscope into the top of the Quick4 Plus All-in-One 8 or 12 Endcap. Insert the Quick4 Plus Periscope until it snaps into place.
3. Insert a 4" Schedule 40 PVC pipe into the Quick4 Plus Periscope at the appropriate locations for the system design.
4. Rotate Quick4 Plus Periscope to desired angle.



1. Drill endcap.



3. Connect inlet pipe.

Installing the System

1. Place the first chamber in the trench.
2. Place the back edge of the endcap over the inlet end of the first chamber. Be sure to line up the locking pins on the top of both the chamber and endcap.
3. Insert the inlet pipe 2.5 inches into the opening on the endcap.
4. Lift and place the end of the next chamber onto the previous chamber by holding it at a 45-degree angle. Line up the chamber end between the connector hook and locking pin at the top of the first chamber. Lower the chamber to the ground to connect the chambers.

NOTE: When the chamber end is placed between the connector hook and locking pin at a 45-degree angle, the pin will be visible from the back side of the chamber.

NOTE: The connector hook serves as a guide to ensure proper connection and does not add structural integrity to chamber joint. Broken hooks will not affect the structure or void the warranty.



2. Place endcap inlet end.



3. Insert inlet pipe.



4. Connect chambers.

5. Swivel the chamber on the pin to achieve the proper direction for trench layout.

NOTE: The chamber allows up to 10-degree swivel in either direction at each joint.

6. Continue connecting chambers until the trench is completed.

NOTE: As chambers are installed, verify they are level.

7. The last chamber in the trench requires an endcap. Lift the endcap at a 45-degree angle and align the connector hook on the top of the chamber with the raised slot on the top of the endcap. Lower the endcap to the ground and into place.

NOTE: Place a few shovels of soil around the endcap to secure it during backfill.

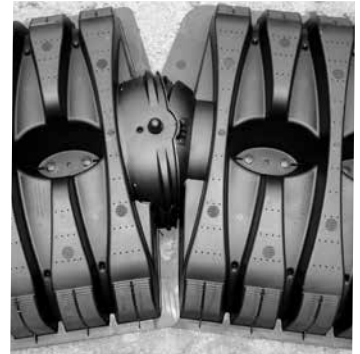
8. To ensure structural stability, fill the sidewall area with a shovel. Start at the joints where the chambers connect. Continue backfilling sidewall area by introducing backfill with a shovel, making sure the fill covers the louvers. Avoid stones larger than 3 inches in diameter in backfill. Remove stones this size or larger that are in contact with the chambers.

NOTE: Infiltrator neither requires or opposes the placement of aggregate or barrier material (geotextile) around or over the chamber system. There is no need for barrier material if Spec 23 sand is installed. Gravel/aggregate backfill is allowed but is not required for structural integrity of the chamber. If installed, aggregate shall meet the specifications outlined in 410 IAC 6-8.3-68 (a) and geotextile cover shall meet the specifications outlined in 410 IAC 6-8.3-69.

9. Pack down fill by walking along the edges of the trench and chambers.

NOTE: In clay soils, do not walk in the sidewalls.

10. Proceed to the next trench and begin with Step 1.



5. Swivel chambers.



7. Place endcap outlet end.

Installing Optional Inspection Ports

Inspection ports may be installed on the chamber, the Quick4 Plus All-in-One 8 Endcap or the Quick4 Plus All-in-One 12 Endcap. The Quick4 Plus 8 Endcap and MultiPort Endcap does not allow inspection port construction.

Endcap Inspection Port

1. With a hole saw drill the pre-marked area in the top of endcap to create a 4 1/3 to 4 1/2-inch opening based on pipe type.
2. Set a cut piece of pipe of the appropriate length into the corresponding endcap's inspection port sleeve.

INSTALLATION INSTRUCTIONS – GRAVITY SYSTEMS

NOTE: Sleeve will accommodate up to a 4-inch Schedule 40 pipe.

3. Use two screws to fasten the pipe to the sleeve around the inspection port.
4. Attach a threaded cap or cleanout assembly onto the protruding pipe at the appropriate height.
5. A small valve cover box may be used if the inspection port is below the desired grade.



Endcap inspection port.

Chamber Inspection Port

1. With a hole saw drill the pre-marked area in the top of the chamber to create a 2.5-inch opening.
2. Set a cut piece of pipe of the appropriate length into the corresponding chamber's inspection port sleeve.

NOTE: Sleeve will accommodate up to a 2-inch Schedule 40 pipe.

3. Use two screws to fasten the pipe to the sleeve around the inspection port.
4. Attach a threaded cap or cleanout assembly onto the protruding pipe at the appropriate height.
5. A small valve cover box may be used if the inspection port is below the desired grade.



Chamber inspection port.

Covering the System

Before backfilling, the system must be inspected by a health officer or other official as required by state and local codes. Create an as-built drawing at this time for future records.

1. Backfill the trench by pushing fill material over the chambers with a backhoe. Keep a minimum of 12 inches of consolidated cover over the chambers before driving over the system.

NOTE: Do not drive over the system while backfilling in sand.

2. Mound several inches of soil over the finished grade to allow for settling, creating a slightly crowned surface. This ensures that runoff water is diverted away from the system.

3. After the system is covered, the site must be seeded or sodded to prevent erosion.

NOTE: If the system is for new home construction, it is important to leave marking stakes along the boundary of the system. This will notify contractors of the system location so they will not cross it with equipment or vehicles.

INSTALLATION INSTRUCTIONS – PRESSURE DISTRIBUTION

Pressure Distribution Systems Before You Begin

These instructions are for the installation of Infiltrator chambers in Indiana. These chambers may only be installed according to 410 IAC 6-8.3 and department standards, and local health department ordinances and procedures.

If unsure of the installation requirements for a site, contact your local health department. If unsure of the use of Infiltrator chambers, contact Infiltrator Water Technologies. The soil and site evaluation and the design of the onsite system must be reviewed, and a construction permit obtained from the local health department before installation.

Materials and Equipment Needed

- | | |
|--|---|
| <input type="checkbox"/> Infiltrator chambers | <input type="checkbox"/> Utility knife |
| <input type="checkbox"/> Endcaps | <input type="checkbox"/> 1.25-inch drywall screws* |
| <input type="checkbox"/> PVC pipe and couplings | <input type="checkbox"/> Screw gun |
| <input type="checkbox"/> Backhoe | <input type="checkbox"/> Hole saw 1 1/2" or 2 1/2" |
| <input type="checkbox"/> Laser, transit or level | <input type="checkbox"/> Small valve-cover box* |
| <input type="checkbox"/> Tape Measure | <input type="checkbox"/> 4-inch cap Inspection port |
| <input type="checkbox"/> Shovel and rake | <input type="checkbox"/> Plastic pipe straps |

*Optional.

These guidelines for construction machinery must be followed during installation.

- Avoid direct contact with chambers when using construction equipment. Chambers require a 12-inch minimum of compacted cover to support a wheel load rating of 16,000 lbs/axle or equivalent to an H-10 AASHTO load rating.
- When installing in sandy soil conditions, wheeled construction equipment is prohibited from crossing trenches during backfilling. Use of tracked vehicles is approved and recommended with only 6" of cover.

Installing the Chambers and Endcaps

NOTE: Pressurized systems can be constructed with either the Quick4 Plus 8 Endcap, the Quick4 Plus All-in-One 8 Endcap, the Quick4 Plus All-in-One 12 Endcap, or the MultiPort Endcap.

The Quick4 Plus All-in-One 12 Endcap is compatible with the Quick4 Plus Standard chamber. The Quick4 Plus All-in-One 8 Endcap and Quick4 Plus 8 Endcap are compatible with the Quick4 Plus LP and Arc 36 LP-4 chambers. The MultiPort Endcap is compatible with the Quick5 chamber.

NOTE: Endcap photos shown throughout this document are for demonstrative purposes only. The endcap being used may differ and is dependent upon the endcap specified and system design.

1. To allow pressure laterals to drain after each dose, drill a hole in the bottom of the pipe at the beginning and end of the lateral. All other orifices are to be drilled in the 12 o'clock position. Place the snap-off splash plate or a paving block at the bottom of trench below weep hole location to protect infiltrative surface from erosion.

2. With a hole saw, drill out the appropriate diameter hole to accommodate the pressure lateral pipe.

3. Insert the pressure lateral pipe into the endcap's drilled opening and slide it into the manifold pipe. Glue the pressure lateral pipe to the manifold pipe.

4. With the pressure lateral pipe through the endcap, place the back edge of the endcap over the inlet end of the first chamber. Be sure to line up the locking pins on the top of both the chamber and endcap.

NOTE: Health departments may require a wet-run pressure check to be done prior to chamber installation when the pipe is laying on the ground. Check with your local health department for the proper procedure.

5. Secure the pressure lateral pipe to the top of the first chamber with a plastic pipe strap at the outlet end of the unit. Slide the strap up through a slot in the chamber top, down through the other slot, and cinch the two ends around the pipe.

6. Lift and place the next chamber onto the previous one at a 45-degree angle. Line up the chamber end between the connector hook and locking pin at the top of the first chamber. Lower it to the ground to engage the interlocks.

7. Secure the lateral pipe to the top of the next chamber once in place. Follow the same method in Step 5.

8. Continue interlocking chambers and securing the pipe until the trench is completed.

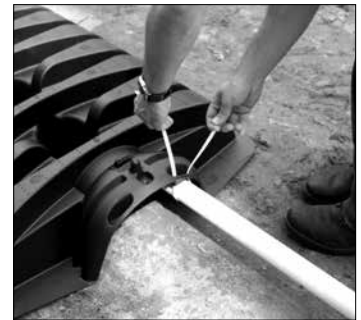
9. Before attaching the final endcap, it may be necessary to remove the tongue of the connector hook on the last chamber with a pair of pliers depending on the pipe diameter.



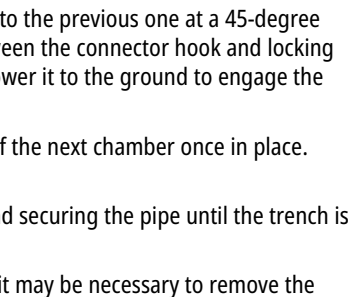
2. Drill pressure pipe hole.



4. Place endcap over inlet end.



5. Secure pressure pipe.



9. Remove the tongue if necessary.

INSTALLATION INSTRUCTIONS – PRESSURE DISTRIBUTION

10. Insert the pressure lateral pipe through the hole in the final endcap and slide the endcap toward the last chamber. Lift the endcap over the modified connector hook and push straight down to secure it to the chamber.

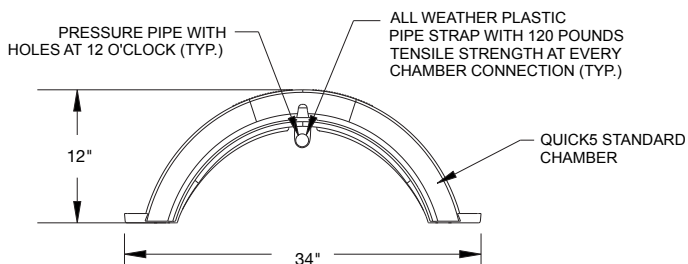
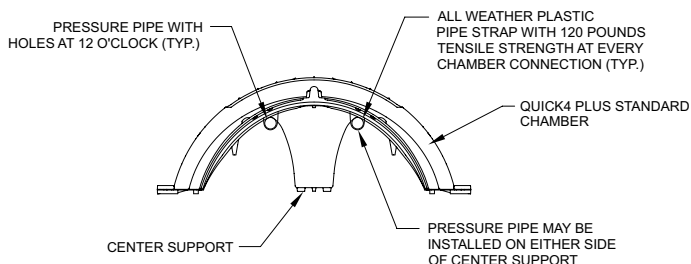
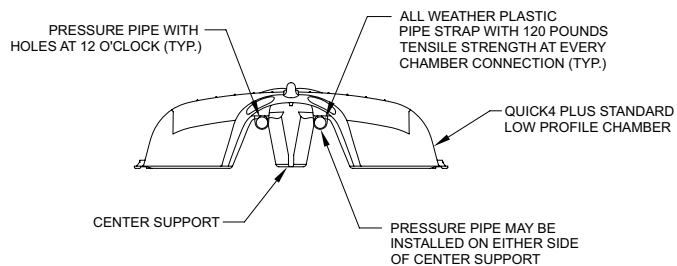


10. Lateral pipe through endcap.

NOTE: If clean-out extensions specified in the design, use a hole saw to cut a hole in the top of the Endcap so the pressure lateral pipe with an elbow can extend to the ground surface. For clean-out access, use the "Installing Optional Inspection Ports" section in the general installation instructions.

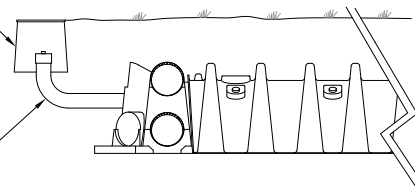
11. If installing multiple rows of chambers, follow Steps 1-8 to lay the next row of chambers parallel to the first. Keep a minimum separation distance between each row of chambers as required by local code.

Pressure Distribution Pipe Positions



PVC FEMALE ADAPTER WITH THREADED CAP TO FINISHED GRADE OR PLACE WITHIN AN IRRIGATION BOX INSULATE AS NECESSARY.

SWEEP OR 2-45° BENDS



Infiltrator Water Technologies, LLC (“Infiltrator”) Infiltrator Water Technologies, LLC STANDARD LIMITED Drainfield WARRANTY

(a) The structural integrity of each chamber, endcap and other accessory manufactured by Infiltrator (collectively referred to as “Units”), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator’s installation instructions, is warranted to the original purchaser (“Holder”) against defective materials and workmanship for one year from the date upon which a Septic Operation Permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required for the septic system by applicable law, the one (1) year warranty period will begin upon the date that installation of the septic system commences. In order to exercise its warranty rights, Holder must notify Infiltrator in writing at its corporate headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for those Units determined by Infiltrator to be defective and covered by this Limited Warranty. Infiltrator’s liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(c) This Limited Warranty shall be void if any part of the chamber system (chamber, endcap or other accessory) is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty.

Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator’s installation instructions.

(d) No representative of Infiltrator has the authority to change this Limited Warranty in any manner whatsoever, or to extend this Limited Warranty. No warranty applies to any party other than the original Holder.

The above represents the standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator’s corporate headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

**Contact Infiltrator's Technical Services Department
for assistance at 1-800-221-4436 or info@infiltratorwater.com**

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