



INFILTRATOR
CORRUGATED PIPE



HDPE Corrugated Pipe

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about

Infiltrator Corrugated Pipe supplies high density polyethylene (HDPE) corrugated pipe to the drainage, septic and stormwater markets throughout the Southeastern United States. Infiltrator Corrugated Pipe understands its customers and commits to being “easy to do business with,” by supplying quality products at competitive prices, with on-time delivery. Once you become a customer, Infiltrator Corrugated Pipe continually strives to earn your loyalty.

Infiltrator Corrugated Pipe

Infiltrator Corrugated Pipe manufactures HDPE corrugated pipe for highway, commercial, agricultural and environmental markets in 3-inch through 24-inch diameters and has pipe available through 60 inches in diameter. Infiltrator Corrugated Pipe manufactures both single- and dual-wall pipe meeting the latest AASHTO and ASTM specifications. Infiltrator Corrugated Pipe is listed by the Eastern States Consortium (ESC), a coalition of the 13 northeastern state departments of transportation. We are listed by AASHTO’s National Transportation Product Evaluation Program (NTPEP), a Federal Highway Administration qualifying agency. Finally, Infiltrator Corrugated Pipe is listed on most of the eastern US State Department of Transportation Qualified Product Lists (QPL). Call our technical department for further information.



HDPE Corrugated Pipe

HDPE corrugated pipe is an ideal material for underground drainage construction. The FHWA and local agencies recognize its benefits, and HDPE corrugated pipe has enjoyed a long history of success in roadway applications. HDPE corrugated pipe is lightweight when compared to other pipe materials, so it is more economical to transport and install. HDPE is very resistant to abrasion and chemical attack which can affect other materials. HDPE corrugated pipe is structurally strong and proven to support large earth loads. HDPE is an environmentally sustainable material. HDPE corrugated pipe is generally used for gravity flow water management applications including stormwater drainage, subsurface drainage, leachate collection, detention/retention systems, and as a component of septic systems.

Storm Drainage

Culverts and storm sewers collect and convey runoff away from impervious surfaces in public and private rights-of-way. HDPE corrugated pipe is a durable and cost effective component of these systems that has been used for over 30 years. Most state and local governments have included HDPE corrugated pipe in their standard specifications.

Subsurface Drainage

HDPE corrugated pipe can also be produced with slots or perforations to collect and convey subsurface water to a more favorable location for discharge. Applications include sides of roadways, golf courses, athletic fields, retaining and foundation walls and agricultural drainage projects.

Leachate Collection

The inherent chemical and acid resistance of HDPE corrugated pipe makes it a perfect choice for landfill and precious metals leachate collection systems. In landfills, rainwater contaminated by waste can have trace chemicals that may attack less resistant piping materials. HDPE is unaffected by most chemicals. In an industrial mining process called heap leaching, cyanide or acidic solutions extract gold, copper and silver from mined ore. The pH of these acidic solutions can vary from 1.5 to 4.0, making HDPE corrugated pipe the material of choice.

Detention/Retention Systems

EPA Best Management Practices require storage and limited discharge of stormwater runoff into streams and rivers, or more preferably, groundwater recharge. Underground detention/retention systems utilizing HDPE corrugated pipe provide a more efficient land use, lower maintenance costs and are a safer alternative to ponds.

Septic Systems

Perforated HDPE corrugated pipe is the material of choice for use in conventional onsite wastewater dispersal systems. Because of its resistance to chemicals found in septic tank effluent and ease of installation, HDPE corrugated pipe is the economical choice for septic systems. Standard septic system pipe is single wall with drilled perforations to meet local health department standards.



Features and Benefits

Chemical Resistant. HDPE resists degradation by a broad spectrum of chemicals, such as road salts, motor oils and fuels. It is also unaffected by extremes in pH.

Lightweight. HDPE weighs significantly less than steel, as well as concrete and PVC pipe, which results in easier handling and reduced labor costs.

Versatile. This product is available for use in a large variety of applications, being manufactured to meet/exceed requirements of ASTM, SCS, and AASHTO.

Durable. HDPE is extremely durable and abrasion resistant. It also withstands freeze-thaw cycles and continuous subzero temperatures without cracking.

Corr-A-Flex

single wall

Specifications

Infiltrator Corrugated Pipe Corr-A-Flex is a single wall HDPE corrugated plastic pipe. Corr-A-Flex is available in 3-inch through 24-inch diameters. Typical laying lengths are 20 ft, although 10-ft lengths are also available. In smaller diameters, coils are manufactured to provide easy installation for subsurface drainage. "Maxi-coils" are available in lengths up to 3000 ft. Corr-A-Flex is also manufactured slotted and perforated for drainage applications.

Applications

For general drainage applications, Corr-A-Flex meets ASTM F405 requirements in diameters from 3 in to 6 in, and ASTM F667 requirements in diameters from 8 in to 24 in. FHWA specifications requiring virgin raw material are AASHTO M252, which covers diameters from 4 in to 10 in and AASHTO M294 for diameters above 10 in. AASHTO designations are Type C (corrugated single wall) and Type CP (corrugated single wall perforated or slotted).

Stick pipe 8 inches in diameter and larger comes with an integral bell and spigot joint; coiled pipe has a plain end. External and internal couplers are available. Standard bell and spigot joints are soil tight per AASHTO specifications.

Nominal Diameter	Average Inside Diameter	Average Outside Diameter	Minimum Wall Thickness	Perforation Pattern	Joint Coupling
3 in (75 mm)	2.9 in (75 mm)	3.5 in (90 mm)	0.020 in (0.51 mm)	Slotted	Snap
4 in (100 mm)	3.9 in (100 mm)	4.6 in (117 mm)	0.020 in (0.51 mm)	Slotted	Snap/Split
5 in (125 mm)	4.7 in (120 mm)	5.5 in (140 mm)	0.020 in (0.51 mm)	Slotted	Snap/Split
6 in (150 mm)	5.9 in (150 mm)	6.8 in (170 mm)	0.020 in (0.51 mm)	Slotted	Snap/Split
8 in (200 mm)	8 in (200 mm)	9.7 in (245 mm)	0.024 in (0.51 mm)	Slotted	Split or Bell End
10 in (254 mm)	10 in (254 mm)	12.9 in (329 mm)	0.024 in (0.51 mm)	Slotted	Split or Bell End
12 in (300 mm)	11.8 in (300 mm)	14.6 in (370 mm)	0.035 in (0.9 mm)	Circular	Split or Bell End
15 in (375 mm)	14.8 in (375 mm)	18.5 in (470 mm)	0.040 in (1.0 mm)	Circular	Split or Bell End
18 in (450 mm)	17.9 in (455 mm)	21.8 in (550 mm)	0.051 in (1.3 mm)	Circular	Split or Bell End
24 in (600 mm)	24 in (600 mm)	28.2 in (715 mm)	0.06 in (1.5 mm)	Circular	Split or Bell End

Corr-A-Flow

dual wall

Specifications

Infiltrator Corrugated Pipe Corr-A-Flow has a corrugated outside wall for strength and smooth inside wall for superior hydraulics. Corr-A-Flow is manufactured in diameters from 4 in through 24 in. Corr-A-Flow has an integral bell and spigot joint in pipe diameters of 8 in and above. The standard joint is soil tight per AASHTO specifications. A gasketed joint meeting ASTM F477 requirements makes the system water tight, meeting the 10.8 psi pressure requirement as defined in AASHTO D3212.

Applications

Corr-A-Flow meets ASTM F2648, "Specification for CPP Pipe and Fittings for Land Drainage Systems in diameters to 60 in." Infiltrator Corrugated Pipe also manufactures dual wall pipe to specifications requiring AASHTO M252 in diameters through 10 in and AASHTO M294 in diameters 12 in and larger.



Nominal Diameter	Average Inside Diameter	Average Outside Diameter	Minimum Wall Thickness	Perforation Pattern	Joint Coupling
4 in (100 mm)	3.9 in (100 mm)	4.6 in (117 mm)	0.020 in (0.51 mm)	Circular	Snap/Split
6 in (150 mm)	5.9 in (150 mm)	6.8 in (170 mm)	0.020 in (0.51 mm)	Circular	Snap/Split
8 in (200 mm)	8 in (203 mm)	9.7 in (245 mm)	0.020 in (0.51 mm)	Circular	Split or Bell End
12 in (300 mm)	11.9 in (300 mm)	14.6 in (370 mm)	0.035 in (0.9 mm)	Circular/Custom	Split or Bell End
15 in (375 mm)	14.9 in (376 mm)	18.5 in (470 mm)	0.040 in (1.0 mm)	Circular/Custom	Split or Bell End
18 in (450 mm)	17.9 in (455 mm)	21.6 in (550 mm)	0.051 in (1.3 mm)	Circular/Custom	Split or Bell End
24 in (600 mm)	23.9 in (605 mm)	28.2 in (715 mm)	0.06 in (1.5 mm)	Circular/Custom	Split or Bell End

Corr-A-Guard

septic system

Infiltrator Corrugated Pipe Corr-A-Guard is a septic system component which utilizes geotextile filter-wrapped pipe in place of conventional leaching systems. Available in diameters of 6 in, 8 in, and 10 in, Corr-A-Guard is most economical in areas where gravel is scarce or expensive. Additionally, gravelless systems often require less excavation. All this translates to lower costs for the contractor and homeowner.



Holes are drilled in alternating corrugations and the pipe is covered with an approved geotextile filter fabric. The 8-in and 10-in diameter Corr-A-Guard comes in 20-ft sections with a molded-on coupler, and is covered with a heavy duty polyethylene bag for protection during shipping and storage. *Note: bag must be removed prior to installation in the trench.*

The recommended trench width for Corr-A-Guard is 18 in to 24 in, although tight soils may require a 24-in-wide trench. The trench must be deep enough to ensure the flow line of the septic tank is at least 1 in above the top of the Corr-A-Guard pipe. Place Corr-A-Guard with the factory-painted orientation line on top (and holes on the bottom). Snap the pipe sections together and pull the extra geotextile filter fabric over the coupler to avoid soil intrusion.












Contractors should check with their local health department to determine the requirements in their area to make sure it is suitable for gravelless pipe.

Nominal Diameter	Standard Length	Perforation Pattern	Joint Coupling
6 in gravelless**	100 ft	1/4 in 5 rows @ 72°	Split
8 in gravelless 4-hole 2-hole	20 ft 20 ft*	3/8 in @ 30°/240° Alternates @ 120°/330° 3/8 in @ 30°/240°	Snap/Split/Bell End
10 in gravelless 2-hole	20 ft*	3/8 in @ 120°/240°	Split or Bell End








* Geotextile Filter and Polyethylene Bag

** Geotextile Filter only

Single Wall Applications

	Blind Reducing Tee Sizes: 8", 10", 12", 15", 18"		Tee Sizes: 3", 4", 5", 6"		Blind Tee Sizes: 3", 4", 5", 6", 8", 10", 12", 15", 18"		Split Coupling Sizes: 4", 5", 6", 8", 10", 12", 15", 18", 24"
	Snap Coupling Sizes: 3", 4", 5", 6"		Internal Coupling Sizes: 3", 4", 5", 6", 8", 10"		End Cap Sizes: 3", 4", 5", 6", 8", 10", 12", 15", 18", 24"		Downspout Adapter Sizes: 4"
	Internal Downspout Adapter Sizes: 4"		Wye Sizes: 3", 4", 5", 6"		Reducing Wye Sizes: 6"		Elbow 45°, 90° Sizes: 3", 4"
	Reducers Sizes: 4"x3", 5"x4", 6"x4", 6"x5", 8"x4", 8"x6", 10"x8", 10"x4", 12"x10"						

Dual Wall Applications

	Tee Sizes: 4"x4"x4" through 24"x24"x24"		Wye Sizes: 4"x4"x4" through 24"x24"x24"		Elbow 45° Sizes: 4"x4" through 24"x24"		Elbow 90° Sizes: 4"x4" through 24"x24"
	Reducing Tee Sizes: 6"x4" through 24"x4"		Reducing Wye Sizes: 6"x4" through 24"x4"		Reducer Sizes: 24"x4" through 24"x18"		
<p>Standard dual wall fittings listed above are stocked. Custom fittings are fabricated to order. Sizes available in 4" - 48".</p>							

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