

Book 1: Chapter 2 - Performance Pipe Products

Performance Pipe polyethylene pipe, fittings, and fabrications are manufactured using state-of-the-art pipe extrusion, injection molding, and fabrication processes. DriscoPlex™ 2000 SPIROLITE® pipe, fittings and fabrications are manufactured using proprietary technology for large, inside diameter controlled polyethylene piping, and state-of-the-art fabrication processes. Performance Pipe products are manufactured to meet or exceed industry standards for polyethylene piping.

Piping Constructions

Conventionally extruded DriscoPlex™ polyethylene pipe in 3" and larger sizes are produced in standard 40' or 50' straight lengths. Longer lengths are available, but are limited by commercial carrier trailer lengths. Longer lengths reduce the number of joints, and speed installation.

Polyethylene pipe in 6" and smaller sizes is available in coils. Coil dimensions and pipe length are dependent on diameter and DR (dimension ratio). For 2" and smaller sizes, coils are standard.

Special handling and laying equipment may be required for coiled pipe. During installation, 4" through 6" coiled pipe may require field processing through re-rounding and straightening equipment.

DriscoPlex™ 2000 SPIROLITE® pipe is inside diameter controlled, and produced in 20' standard laying lengths. Thirteen-foot lengths are available upon request. Push-on type, gasketed-spigot-and-bell joints are standard.

For information about Performance Pipe polyethylene pipe products, striping, colors, and for custom products such as special outside diameters, extra heavy or extra thin walls, special wall profiles, and custom fabrications, contact your Performance Pipe Distributor or Performance Pipe Territory Manager.

Sizing Systems

Performance Pipe manufactures polyethylene pipe and fittings to meet or exceed applicable industry standards. Several sizing systems are used:

- ❑ CTS: Copper Tube Size — same OD as inch-sized copper tubing
- ❑ IPS: Iron Pipe Size — same OD as inch-sized iron and steel pipe
- ❑ DIPS: Ductile Iron Pipe Size — same OD as inch-sized ductile iron pipe
- ❑ Custom OD Sizes — Inch or metric OD sizes per customer specification
- ❑ ID Controlled — DriscoPlex™ 2000 SPIROLITE® pipe ID Sizes per ASTM F 894; Conventionally extruded ID-controlled Sizes per ASTM D 2239 and AWWA C901

Third Party Certification and Listing

Some DriscoPlex™ piping products are third party certified or listed:

- CSA — Canadian Standards Association
- FM — Factory Mutual
- NSF — National Sanitation Foundation
- IAPMO — International Association of Plumbing and Mechanical Officials (marked with Unified Plumbing Code (UPC) Shield)
- RUS — Rural Utility Service listed

Table 2-1 Performance Pipe DriscoPlex™ Piping Products

Typical Markets for Pipe and Fittings	Performance Pipe DriscoPlex™ Piping Series	Typical Features	Previous Designations	
			Former Plexco Product	Former Driscopipe Product
<i>Municipal, Industrial</i>	DriscoPlex™ 1000 pipe	1, 22	EHMW	1000
	DriscoPlex™ 8700 pipe	1, 19	EHMW	8700
<i>FMR Approved Underground Fire Main</i>	DriscoPlex™ 1500 pipe	1, 2, 8, 12	REDSTRIPE™ FM	1000 FM
		1, 2, 8, 23	BLUESTRIPE™ -FM	–
	DriscoPlex™ 1600 pipe	5, 6, 12, 32	–	–
		5, 6, 23, 32	–	–
<i>Mining</i>	DriscoPlex™ 1700 pipe	1, 3	PLEXSTRIPE™	1000 SP
<i>Perforated Pipe</i>	DriscoPlex™ 1900 pipe	1, 4	EHMW Perforated Pipe	–
<i>Water Distribution</i>	DriscoPlex™ 4000 pipe	5, 6, 7	BLUESTRIPE™ (DIPS)	4000 BLUESHELL (DIPS)
<i>Industrial, Water Distribution, Process</i>	DriscoPlex™ 4100 pipe	1, 8, 33, 34	BLUESTRIPE™ (IPS)	4100 BLUESHELL (IPS)
<i>Water Service Pipe & Tubing</i>	DriscoPlex™ 5100 Ultra-Line® pipe	9, 19	BLUESTRIPE™	5100 ULTRA-LINE®
<i>Sanitary Sewer</i>	DriscoPlex™ 4200 pipe	8, 10	GREENSTRIPE™ (IPS)	4200 GREENSHELL (IPS)
	DriscoPlex™ 4300 pipe	5, 6, 10	GREENSTRIPE™ (DIPS)	4300 GREENSHELL (DIPS)
	DriscoPlex™ 2000 SPIROLITE® pipe	11	SPIROLITE®™	–
<i>Treated/Reclaimed Water</i>	DriscoPlex™ 4400 pipe	8, 13	PURPLESTRIPE™ (IPS)	4400 LAVENDERSHELL (IPS)
	DriscoPlex™ 4500 pipe	5, 6, 13	PURPLESTRIPE™ (DIPS)	4500 LAVENDERSHELL (DIPS)

Typical Markets for Pipe and Fittings	Performance Pipe DriscoPlex™ Piping Series	Typical Features	Previous Designations	
			Former Plexco Product	Former Driscopipe Product
<i>Trenchless Rehabilitation</i>	DriscoPlex™ 4600 pipe	1, 14	PLEXVUE® (IPS)	–
	DriscoPlex™ 4700 pipe	5, 6, 14, 20	PLEXVUE® (DIPS)	–
	DriscoPlex™ 1200 pipe	1, 15	–	1200 OPTICORE (IPS)
	DriscoPlex™ 1400 pipe	5, 15	–	1400 OPTICORE (DIPS)
<i>Irrigation</i>	DriscoPlex™ 4800 pipe	16	MDPE	–
<i>Dual Containment</i>	DriscoPlex™ 2400 pipe	1, 17	DCS	–
<i>Liner Pipe</i>	DriscoPlex™ 9200 pipe	18	EHMW	9200
<i>Manholes, Structures, Tanks</i>	DriscoPlex™ 2000 Spirolite® pipe	21	Manholes, Structures, Tanks	–
<i>Gas Distribution</i>	DriscoPlex™ 6500 pipe	1, 24	Yellowpipe®	6500
	DriscoPlex™ 6800 pipe	1, 25	Plexstripe II	6800
	Driscopipe® 8100 pipe	1, 26	–	8100
	Yellowstripe® 8300 pipe	1, 27	Yellowstripe®	–
	DriscoPlex™ 6600 pipe	31	Plexshield™	–
<i>Oil Patch-Gas Gathering</i>	DriscoPlex™ 6400 pipe	1, 28	Oil & Gas Pipe	6400
<i>Geothermal</i>	DriscoPlex™ 5300 Climate Guard® pipe	1	Plexco EHMW	5300
<i>Duct/Conduit</i>	DriscoPlex™ 3100 pipe	1, 29	Redstripe™ & Redpipe	3100
	DriscoPlex™ 3200 pipe	1, 30	Plexstripe	3200
NOTICE. Capabilities vary from manufacturing plant to manufacturing plant. Contact Performance Pipe to determine the availability of specific products and the availability of particular stripe or shell colors, striping patterns, and IPS or DIPS sizing.				
Legend for Typical Features:				

Typical Markets for Pipe and Fittings	Performance Pipe DriscoPlex™ Piping Series	Typical Features	Previous Designations	
			Former Plexco Product	Former Driscopipe Product
1. IPS sizing system.		12. Red color stripes are standard.	25. Black PE 3408 with three equally spaced pairs of longitudinal yellow stripes extruded into the pipe OD.	
2. FMR Approved Class 150 or Class 200 in 2" – 24" IPS pipe sizes.		13. Purple color stripes are standard. A lavender color shell is available on special order.	26. Premium PE 3408/PE 100 HDPE. Yellow color shell.	
3. A single longitudinal color stripe is extruded into the pipe OD to identify DR.		14. Solid light gray color.	27. Premium PE 3408/PE 100 HDPE. Four equally spaced longitudinal yellow stripes extruded into the pipe OD.	
4. Various perforation patterns are available.		15. Light gray color lining extruded into pipe ID.	28. Made per API 15LE. Not for gas distribution.	
5. DIPS sizing system.		16. Black PE 2406 material.	29. Electric duct-conduit. Three equally spaced, longitudinal red stripes extruded into the pipe OD.	
6. The DIPS longitudinal color stripe pattern is three equally spaced pairs of color stripes extruded into the pipe OD.		17. Factory assembled casing and carrier.	30. Communications duct-conduit. Single longitudinal color stripe available.	
7. Blue color stripes are standard. A blue color shell is available on special order.		18. Custom wall thickness and diameters available on special order.	31. Gas distribution service tubing within a rodent resistant corrugated tube.	
8. The IPS longitudinal color stripe pattern is four equally spaced single color stripes extruded into the pipe OD.		19. PE 3408/PE100 material.	32. FMR Approved Class 150 or Class 200 in 4" – 24" DIPS pipe sizes.	
9. NSF Approved. CTS, IPS, and SIDR in 1/2" – 2" sizes.		20. Green color stripes are standard.	33. Blue color stripes or blue color shell available on special order.	
10. Green color stripes are standard. A green color shell is available on special order.		21. Manholes, tanks and special structures made from DriscoPlex™ 2000 SPIROLITE® and DriscoPlex(tm) PE 3408 piping products.	34. 2" IPS and 3" IPS made to ASTM D 3035, AWWA C901 and NSF 61. 4" IPS and larger made to ASTM F 714, AWWA C906 and NSF 61.	
11. RSC 40-160 in 18" – 120" ID sizes in open or closed profile.		22. 1-1/2" IPS and smaller sizes only.		
		23. Dual certified FMR & NSF. Blue color stripes standard.		
		24. Yellow PE 2406. IAPMO (UPC) certification for yard gas available.		

Table 2-2 Markets and Typical Applications and Uses for Performance Pipe M & I Piping Products

<i>Market</i>	<i>Typical Applications and Uses</i>
<i>Industrial and Municipal</i>	Industrial Process Piping – Dredging, Slurry and Flyash Lines – Road Drainage and Culverts – Temporary Bypass Pumping – River, Lake and Reservoir Crossings – Force Mains – Odor Control – Sludge Lines – Outfalls and Diffusers – Chemical Mineral Extraction – Chemical and Corrosive Wastes – Leachate Control Systems – Fabricated Fittings and Custom Fabrications – Manholes, Tanks, Structures, Catch Basins – Impoundment Piping – Pipeline Rehabilitation – Chemical and Zebra Mussel Treatment Systems – Snow Making Systems – Subsurface Snow Melting Systems
<i>FM Approved Underground Fire Main</i>	Underground Municipal and Industrial Fire Water Systems
<i>Mining</i>	Acid Mine Drainage – Chemical Mineral Extraction – Process Pipe and Fittings – Decant Systems – Slurry and Tailings Lines – Dewatering – Impoundment Piping
<i>Perforated Pipe</i>	Aeration Systems – Landfill Gas Collection – Leachate Collection – Drainage and Waste Disposal Absorption Fields – Odor Control
<i>Water Distribution</i>	Underground Potable Water Distribution Mains – River, Lake and Reservoir Crossings – Intake Piping – Directional Drilling – Potable Water Fire Main
<i>Water Service Tubing</i>	Small Diameter Underground Potable Water Distribution Service Lines
<i>Sanitary Sewer</i>	Gravity Sanitary Sewer Mains – Sanitary Sewer Forced Mains – Odor Control – Temporary Bypass Pumping – Dewatering – Storm Drains – Directional Drilling – Chipper Systems
<i>Treated/Reclaimed Water</i>	Raw Water Systems – Outfalls and Diffusers
<i>Trenchless Rehabilitation</i>	Pipeline Rehabilitation – Pipe Bursting – Sliplining
<i>Irrigation</i>	Hard-Hose Reel Irrigation – Drag-Line Irrigation – Underground Irrigation Water Supply Mains
<i>Dual Containment</i>	Chemicals and Corrosive Wastes – Pressure and Gravity Flow Chemical Process Piping – Fuel Piping – Purity Assurance (Contamination Prevention) Piping Systems
<i>Liner Pipe</i>	Pipeline Rehabilitation – Tight-Fitting Liners – Casing for Insulated Pipe
<i>Manholes, Tanks, Structures</i>	Municipal Sanitary Sewers – Industrial Sewers – Landfill Leachate Control Systems – Chemicals and Corrosive Wastes – Storm Drain Systems – Odor Control
<i>Gas Distribution</i>	Underground Utility Gas Distribution – Yard Gas – Insertion Renewal – Underground Propane & LPG Distribution
<i>Oilfield & Gas Gathering</i>	Brine – CO ₂ – SO ₄ – Crude Oil – Wet Gas – Condensate Return Lines
<i>Geothermal</i>	Ground Source Heat Pumps – Downhole Geothermal Loop Systems – Horizontal Closed Loop Systems – Subsurface Snow Melting Systems
<i>Conduit-Duct</i>	Electric Duct & Casing – Communications Duct & Casing – Directional Drilling