



# HDPE PIPING SYSTEMS

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EnviroPlast is a leading supplier of high-performance HDPE piping solutions, specializing in the manufacture and installation of durable, leak-free systems for a wide range of industries. With a commitment to quality, innovation, and sustainability, EnviroPlast delivers engineered piping systems that are designed to withstand the most demanding conditions—whether for municipal water supply, industrial processes, mining operations, or agricultural irrigation. By combining advanced manufacturing capabilities with expert on-site installation services, EnviroPlast ensures long-lasting performance, environmental safety, and cost-effective delivery on every project.

## HDPE Plain-Ended Pipes

EnviroPlast manufactures high-quality HDPE Plain Ended Pipes, designed to meet a broad range of industry needs. Our standard product line includes pipe sizes from 16mm to 630mm, with the flexibility to supply up to 1000mm upon request. With pressure ratings from PN4 to PN25 (SDR41 to SDR7.4), our solutions are built for strength, reliability, and long-term performance across diverse applications. We are equipped to deliver both volume and consistency. At EnviroPlast, we are committed to providing customized, dependable solutions that align with our clients' project requirements and exceed their expectations.

## Spiral Structured Wall HDPE Pipes

EnviroPlast has extensive expertise in manufacturing and supplying Spiral Structured Wall HDPE Pipe solutions, available in Inner Diameters (ID) ranging from 300mm to 3500mm in ID with integral socket & spigot. We offer multiple ring stiffness options—2kN/m<sup>2</sup>, 4kN/m<sup>2</sup>, and 8kN/m<sup>2</sup>—to meet a variety of structural and performance needs, all at highly competitive pricing. Our Spiral Structured Wall HDPE Pipes represent the forefront of innovation in material technology and manufacturing processes. By combining high-quality raw materials with advanced production methods, we deliver a precisely engineered piping solution. Designed for versatility, it is perfectly suited for municipal, industrial, road construction, rehabilitation, and marine applications. Lightweight yet durable, our HDPE Spiral Pipe ensures reliable performance in both gravity-fed and low-pressure systems.

## Flame Retardant HDPE Pipes

EnviroPlast is a specialized manufacturer of flame-retardant HDPE piping solutions, engineered to deliver enhanced fire safety without compromising durability or performance. Designed for environments where fire resistance is critical—such as industrial facilities, underground infrastructure, underground mining and tunnels—our flame-retardant pipes combine the strength and flexibility of HDPE with advanced fire-inhibiting additives. Committed to safety, innovation, and quality, EnviroPlast provides reliable, compliant piping systems that meet stringent safety standards and perform under the most demanding conditions.

## HDPE-Lined Steel Pipes

EnviroPlast is a leading manufacturer of HDPE-lined steel pipes, offering advanced piping solutions that combine the structural strength of steel with the corrosion resistance of high-density polyethylene (HDPE). Engineered for demanding environments such as mining, water transmission, industrial processing, and slurry transport, our HDPE-lined pipes provide exceptional durability, chemical resistance, and extended service life. By integrating cutting-edge lining technology with precision fabrication, EnviroPlast delivers reliable, long-lasting solutions tailored to meet the most challenging operational requirements.

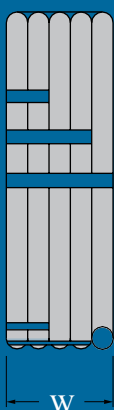
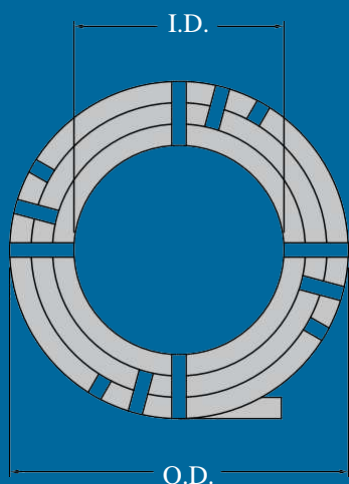
## HDPE Pipe Installations

EnviroPlast is a trusted provider of professional HDPE pipe installation services, delivering reliable and efficient solutions for a wide range of applications, including water distribution, wastewater systems, gas pipelines, and industrial and mining infrastructure. With a team of certified technicians and extensive experience in fusion welding techniques, we ensure leak-free, long-lasting installations that meet the highest standards of safety and performance. Whether for new projects or system upgrades, EnviroPlast is committed to precision, quality, and customer satisfaction at every stage of the installation process.

# HDPE PLAIN-ENDED PIPES SPECIFICATIONS

High-Density Polyethylene (HDPE) plain-ended pipes are a versatile and widely used solution for fluid and gas transportation across a variety of sectors, including water supply, irrigation, mining, industrial, and wastewater management. Characterized by their smooth, unthreaded ends, these pipes are designed for fusion welding or mechanical jointing methods, allowing for strong, leak-free connections. HDPE plain-ended pipes come in several types to suit different application needs, including standard pressure-rated pipes (PN4 to PN25), coiled pipes for easy handling in smaller diameters, and custom-fabricated variants such as perforated or slotted pipes for drainage and filtration systems. Known for their durability, chemical resistance, and flexibility, HDPE plain-ended pipes offer a reliable, long-lasting piping solution in both underground and above-ground installations.

## Coiled HDPE Pipes Specifications



EnviroPlast's HDPE plain-ended coil pipes are a flexible and efficient piping solution ideal for applications such as water supply, irrigation, cable ducting, and rural infrastructure projects. Supplied in continuous coils, ranging from 16mm to 110mm in diameter, these pipes minimize the need for joints, reducing installation time and the risk of leaks. Known for their lightweight design, flexibility, and resistance to corrosion and chemicals, EnviroPlast's HDPE coil pipes are especially suited for long-distance and difficult-to-access installations. Their plain ends allow for easy connection through fusion welding or mechanical fittings, offering a dependable, low-maintenance solution for a wide range of fluid transport needs.

## Coil Dimensions

		Coil Dimensions					
		I.D.		O.D.		Width (W)	
		mm	mm	mm	mm	mm	mm
		Coil Length - metres					
O.D.	SDR's	50/100m	50m	100m	50m	100m	
16	7.4/9/11	600	n/a	860	n/a	180	
20	7.4/9/11/13.6	600	n/a	860	n/a	180	
25	7.4/9/11/13.6/17	600	n/a	890	n/a	200	
32	7.4/9/11/13.6/17	700	n/a	1090	n/a	220	
40	7.4/9/11/13.6/17/26	700	n/a	1090	n/a	220	
50	7.4/9/11/13.6/17/26	1300	1410	1560	150	220	
63	7.4/9/11/13.6/17/26	1300	1780	1960	190	280	
75	7.4/9/11/13.6/17	1300	1780	1960	190	280	
90	7.4/9/11	2500	3100	3300	270	360	
90	13.6/17/21	1800	2360	2540	360	450	
110	7.4/9/11	2500	3160	n/a	330	n/a	
110	13.6/17/21	2200	2860	n/a	400	n/a	

# SPIRAL STRUCTURED-WALL HDPE PIPES SPECIFICATIONS

EnviroPlast's Spiral Structured-Wall HDPE pipes are engineered for high-performance, large-diameter piping solutions, combining strength, flexibility, and lightweight design. EnviroPlast manufactures them using a spiral winding process, these pipes are available in sizes ranging from 300mm to 1200 mm with the flexibility to go up to 3500mm inner diameter upon request. Designed for gravity and low-pressure applications, they offer excellent ring stiffness, high impact resistance, and long-term durability, even in challenging environments. Their corrosion and chemical resistance make them ideal for use in storm water drainage, sewage systems, culverts, road and rail infrastructure, marine outfalls, and rehabilitation of aging pipelines. With ease of handling and cost-effective installation, EnviroPlast's Spiral Structured-Wall HDPE pipes provide a reliable, modern alternative to traditional materials like concrete and steel.

## Spiral Structured-Wall HDPE Pipes Specifications



## Spiral Pipe Dimensions

Pipe side (mm)	Inside Diameter (mm)	Outside Diameter (mm)	Wall Thickness (mm)	
300	S1 = 4 kN/mm <sup>2</sup>	300	328	1.8
	S2 = 8 kN/mm <sup>2</sup>	300	338	2.5
400	S1 = 4 kN/mm <sup>2</sup>	400	438	2.5
	S2 = 8 kN/mm <sup>2</sup>	400	450	2.5
500	S1 = 4 kN/mm <sup>2</sup>	500	550	2.5
	S2 = 8 kN/mm <sup>2</sup>	500	562	2.8
600	S1 = 4 kN/mm <sup>2</sup>	600	662	2.8
	S2 = 8 kN/mm <sup>2</sup>	600	679	3.3
700	S1 = 4 kN/mm <sup>2</sup>	700	778	3.3
	S2 = 8 kN/mm <sup>2</sup>	700	888	3.8
800	S1 = 4 kN/mm <sup>2</sup>	800	900	3.8
	S2 = 8 kN/mm <sup>2</sup>	800	1000	5.2
900	S1 = 4 kN/mm <sup>2</sup>	900	1024	4.5
	S2 = 8 kN/mm <sup>2</sup>	900	1100	6.0
1000	S1 = 4 kN/mm <sup>2</sup>	1000	1124	5.3
	S2 = 8 kN/mm <sup>2</sup>	1000	1224	6.0
1100	S1 = 4 kN/mm <sup>2</sup>	1100	1250	6.0
	S2 = 8 kN/mm <sup>2</sup>	1100	1250	6.5
1200	S1 = 4 kN/mm <sup>2</sup>	1200	1324	6.0
	S2 = 8 kN/mm <sup>2</sup>	1200	1350	6.5

# FLAME-RETARDANT HDPE PIPES SPECIFICATIONS

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EnviroPlast Flame Retardant HDPE pipes are specially engineered to offer enhanced fire resistance while maintaining the flexibility, durability, and chemical resistance of standard HDPE. These pipes are available in a range of sizes from 20mm to 630mm in diameter, and can be customized for specific project requirements. Infused with flame-retardant additives, they are designed to slow down the spread of fire and reduce smoke generation, making them ideal for use in environments with strict fire safety standards. Common applications include underground cable protection, industrial facilities, tunnels, transportation infrastructure, and confined spaces where fire risk must be minimized. Lightweight, corrosion-resistant, and easy to install, flame retardant HDPE pipes provide a safe, long-lasting solution for critical infrastructure.



# HDPE-LINED STEEL PIPES SPECIFICATIONS

EnviroPlast's HDPE-lined steel pipes combine the structural strength of steel with the corrosion resistance and smooth flow characteristics of High-Density Polyethylene (HDPE), creating a robust and long-lasting piping solution. These pipes are available in a wide range of sizes, from 50mm to 1600mm in diameter, and can be customized to meet specific pressure and length requirements. The HDPE liner is securely fitted inside the steel pipe, providing a seamless, corrosion-resistant barrier that protects against aggressive chemicals, abrasion, and internal wear. This makes EnviroPlast's HDPE-lined steel pipes ideal for mining slurry transport, water transmission, industrial wastewater systems, oil and gas applications, and marine outfalls. With extended service life, reduced maintenance, and excellent hydraulic performance, EnviroPlast offers a cost-effective solution for demanding environments where both strength and durability are critical. EnviroPlast's HDPE-lined pipe systems are SABS and SAPPMA approved and have successfully passed all ASTM F1545 requirements.



# HDPE PIPE INSTALLATIONS SPECIFICATIONS

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EnviroPlast offers a modern, efficient, and long-lasting solution to HDPE pipe installations for a wide range of fluid and gas transportation needs. EnviroPlast's HDPE systems are known for their flexibility, leak-free fusion joints, corrosion resistance, and ease of installation. Our piping systems are widely used across municipal water and wastewater systems, agricultural irrigation, industrial piping, mining operations, and gas distribution networks. With various joining methods such as butt fusion, electrofusion, and mechanical fittings, EnviroPlast's HDPE Piping Systems can be installed quickly and reliably, even in challenging terrains or confined spaces. The combination of low maintenance requirements and long service life makes our HDPE Piping Systems installations a cost-effective and environmentally sustainable choice for both small-scale and large infrastructure projects.





**ENVIROPLAST.**

A unique approach  
centered on smart  
solutions and  
environmental  
sustainability



**TALK WITH US  
ABOUT HOW WE  
CAN HELP YOU.**  
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