



# ECOPIPE

STRUCTURED WALL HDPE PIPES



## INTRODUCTION

Low-cost structured wall HDPE pipe systems are a popular choice for a variety of applications due to their durability, flexibility, and ease of installation. These systems are composed of high-density polyethylene (HDPE) pipes, which are designed with a corrugated exterior and a smooth interior for efficient fluid transfer. Structured wall pipes provide enhanced strength and stiffness, allowing for a reduction in the amount of material needed and lowering overall costs. These pipes are also resistant to corrosion, abrasion, and chemical damage, making them suitable for use in harsh environments. Overall, low-cost structured wall HDPE pipe systems are a reliable and cost-effective solution for a range of piping needs.





The EcoPipe is a great choice for any project that requires an efficient and eco-friendly piping solution while not compromising quality and durability. With the use of the latest spiral wound extrusion technology, the EcoPipe prides itself on being one of the strongest engineered culvert pipes in the market.



## APPLICATION

- Storm drain and Under-drain under foot ways
- Culverts
- Slope Drain
- Civil temporary works
- Storm drain in golf course
- Piping water races or creeks
- Catch drain for gushy water
- Flumes for surface water management
- Stop bank culverts
- Building lots for factories
- Home lots
- Drainage for sports and school grounds
- Drainage for Agriculture field
- Drain from back filling into tunnel walls

## FEATURES

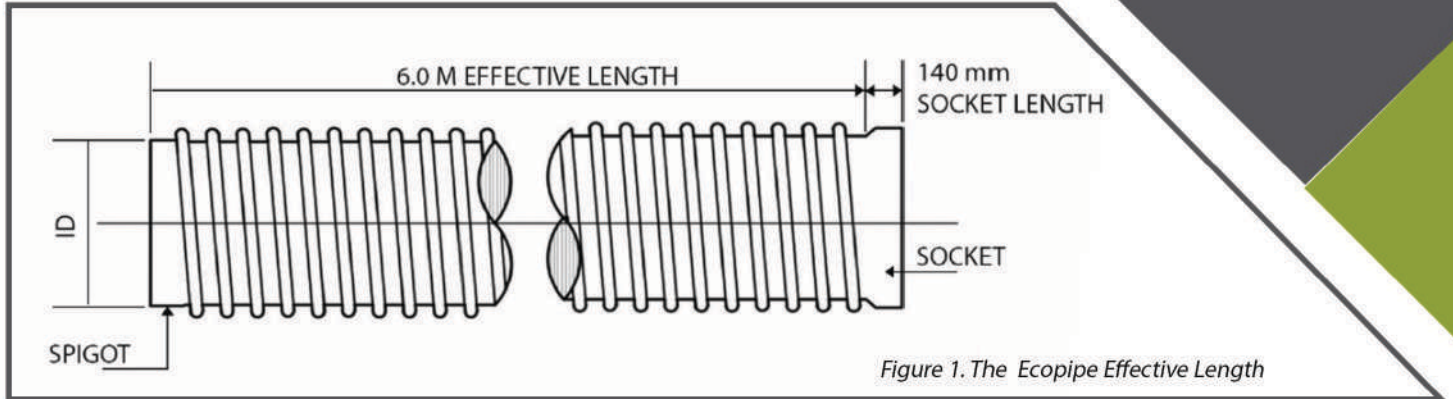
- ▶ Up to 1,600mm in diameter
- ▶ Light and easy to handle – a standard EcoPipe weighs 114kg/m vs a concrete pipe that weighs 1,623kg/m
- ▶ Modern and Flexible
- ▶ Smooth interior with High-Flow Capacity
- ▶ High chemical and abrasion resistance
- ▶ Economical
- ▶ Corrosion Proof
- ▶ Leak Proof Joint
- ▶ We cater for your unique application so you only pay for the pipe strength you need
- ▶ Low asset maintenance
- ▶ Uses recycled plastic
- ▶ 100-year life expectancy
- ▶ Quick pipe to pipe jointing
- ▶ Pipes can be manufactured to length to save cost and wastage



## STANDARD LENGTH

The Ecopipe has a standard length of 6 meters making it convenient to store, easy to handle and quick to transport.

The Ecopipe can be delivered pre jointed, saving time in the electrofusion jointing in the site reducing the overall installation time. Pipes up to 12 meters can be prejointed consisting of 2 pipe sections.



## DIAMETER

The nominal diameters (DN) coincides with the internal diameter (ID) of the pipe, because in case of any change in the design of the pipe, the wall thickness can be increased or reduced while the internal diameter remains the same. This ensures that the designated hydraulic capacity for the installation is maintained.

## PIPE DIAMETER SIZES

DN / ID	DN / OD RANGE
300 mm	372 - 470 mm
400 mm	488 - 570 mm
500 mm	588 - 712 mm
600 mm	704 - 812 mm
700 mm	810 - 912 mm
800 mm	934 - 1012 mm
900 mm	1034 - 1112 mm
1000 mm	1134 - 1212 mm
1200 mm	1340 - 1472 mm
1400 mm	1534 - 1692 mm
1500 mm	1662 - 1792 mm
1600 mm	1774 - 1892 mm



## THE ECOPIPE ADVANTAGE



### Budget-Friendly

The Ecopipe is produced from post-consumer recycled high-density polyethylene (HDPE; used in shampoo bottles, plastic food containers, etc.), recycled high-density polyethylene (HDPE) milk bottles, and reprocessed HDPE by-product from civil pipe production. This results to a plastic drainage piping system that is more affordable for residential and commercial use.



### Ease of Installation and Handling

The Ecopipe can be transported by hand and set up without any special tools. When connecting pipes a screw-type coupling is the quickest and most convenient option.

The Ecopipe uses electrofusion as a jointing method. This is the most preferred joint system, as the end product of the whole pipe system becomes one homogenous unit. A welding wire placed within the pipe's socket is heated by the electrofusion welding equipment through the use of electrical currents flowing within the conductive wiring, wherein the two ends of the pipe (socket and spigot) are joined together. The electro-fusion jointing technique is a superior, simple, and safe method to install pipes even in very narrow trenches in a short time.



### High-Flow Capacity

The Ecopipe's interior surface is smooth to maximize flow, minimize silt accumulation, and reduce the possibility of clogging.



### Modern and Flexible

The Ecopipe is available in standard lengths of 6 meters and is sufficiently flexible to follow ground contours due to its high-grade HDPE construction.



### 100 Year Design Life

Ecopipe is designed to last a hundred years. The pipes are chemically inert so they do not break or react even with exposure to acids and bases, reducing maintenance and replacement costs.



### Economical

In contrast to conventional pipes, which are extremely heavy, the Ecopipe is lightweight and offers significant savings on transportation, installation materials, and equipment damage.



## THE ECOPIPE ADVANTAGE

### 100% leak tight connections

The ends of the Ecopipe are connected via electrofusion jointing method. This method enables the welded ends of the pipes to form a monolithic homogenous and air-tight bond thus making the pipeline leak-free and unaffected by neither system infiltration or exfiltration.



### Corrosion Proof

The ends of the Ecopipe are connected via electrofusion jointing method. This method enables the welded ends of the pipes to form a monolithic homogenous and air-tight bond thus making the pipeline leak-free and unaffected by neither system infiltration or exfiltration.



### Tough

The Ecopipe is constructed from superior high-density polyethylene (HDPE) resins and is ideal for all-weather conditions in the area. It can withstand external pressure thanks to its modified rib reinforcements.



### Recyclable

Polyethylene and polypropylene can be recycled up to 100%. These materials have the property that can be repaired without significantly altering the structure of the material. For this reason, all polyethylene and polypropylene pipe waste can be returned to the production process.



### Micro-organisms, Rodents and Termites Resistance

The round and smooth surface of the plastic pipe does not give the rodent's teeth enough strength to attach to the pipe's surface to cause damage. Also, even in termite-infested countries, there is no record of damage to polyethylene pipes caused by termites. Polyethylene and polypropylene are not nutrient media for bacteria, fungi, and spores, so the material is resistant to all forms of microbial attack. The pipe is also resistant to any chemical like sulphurous acid and sulfates.





## ENGINEERED PRODUCTS

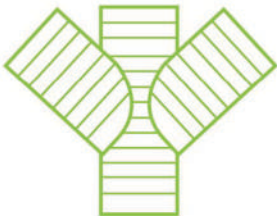
A significant advantage of the Ecopipe is that it can be easily tailored to the needs of various types of projects. In accordance with the different norms and standards, the pipes must be selected in accordance with their class of nominal ring stiffness (SN). With the Ecopipe, we are able to provide any project with pipes of the precise stiffness that the project demands.

## THE ECOPIPE OFFERS A COMPLETE SYSTEM



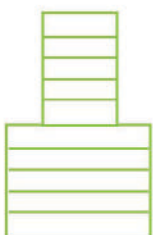
### Fittings

The Ecopipe fittings are made out of the pipes. In most cases, the fittings are designed to provide the requisite stiffness while also taking into account welding considerations. Every fitting can have any type of pipe end and can be jointed through electrofusion technique



### Branches

Branches can be made and delivered in a variety of shapes and sizes. The angle, as well as the endpoints, and corresponding segment lengths, can be adjusted separately from 15 to 90 degrees. Bends can be made and segmented at various angles, and the radius of the bend in relation to the pipe diameter can be chosen separately.



### Reductions

To meet all of the requirements, reductions can be made both centric and eccentric. The maximum variation in diameter for standard reductions is 200 mm; other diameters are available upon request.



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