



# Big 'O'<sup>®</sup> Highway Pipe

Big 'O' single wall corrugated polyethylene (PE) pipe is a cost effective solution for street and highway drainage applications including edge drains, cross drains, and underdrains. Big 'O' protects roadway foundations by draining water away from them. It can also help prevent unsafe driving conditions due to water accumulation on road surfaces.



Big 'O' construction combines strength and durability in a lightweight and durable product. **It meets the BNQ 3624-115 standard and is rated to HS-25 Highway Traffic Loads when installed with a minimum 300 mm (12 in) height of cover.**

Unlike alternative drainage materials, Big 'O' pipe stands up to the most challenging environmental conditions and is unaffected by freeze-thaw cycles. It is available in long roll lengths minimizing joints and reducing installation time. Split and insert couplers deliver a soil-tight connection.

## **Durable**

Superior chemical and abrasion resistance and can withstand repeated freeze/thaw cycles

## **Lightweight**

Easy to handle with minimal equipment

## **Easy to Install**

Longer pipe lengths require fewer joints allowing quicker installation

## PIPE SPECIFICATION

### Scope

This specification covers the requirements of 75 mm to 375 mm nominal diameter single wall corrugate polyethylene (PE) pipe for gravity-flow subdrainage applications. Each size is available in solid, perforated or perforated with geotextile sock filter.

### Materials

Pipe shall be manufactured and certified to BNQ 3624-115. The polyethylene resin shall meet or exceed the minimum cell classification class 323420C.

### Pipe Dimensions

The nominal size of the pipe is based on the nominal inside diameter of the pipe.

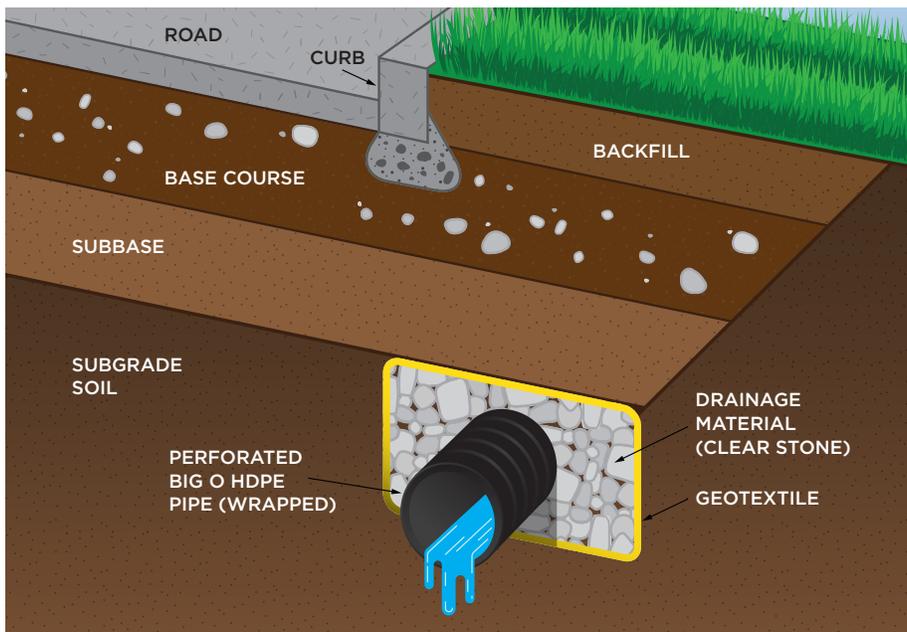
Nominal Inside Diameter (mm)	75	100	150	200	250	300	375
Nominal Outside Diameter (mm)	90	120	180	240	305	375	400

### Joints

The pipe shall be joined with snap, insert or split couplers.

### Pipe Stiffness

The pipe shall have a minimum pipe stiffness of 210 kPa at 5% deflection. Tests shall be conducted in accordance with ASTM D2412.



Subsurface drainage extends the service life of streets and highways.

### Applicable Standards

BNQ 3624-115  
OPSS 1840  
OPSS 405



Armtec is a member of  
The Plastic Pipe Institute



Armtec is a leading national manufacturer of a comprehensive range of infrastructure products and engineered construction solutions for customers in a diverse cross-section of industries. With operations coast to coast, we are a trusted partner for transportation, public works, forestry, oil and gas, and mining operations throughout the country and abroad. Since 1908 our commitment to quality, customer service and innovation has set the benchmark in the Canadian drainage and bridge landscape.

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