

# Solutions for a green future

CORRUGATED PIPE SN16  
**CD59R02**



[www.politejo.com](http://www.politejo.com)

# The best thermoplastic solutions for infrastructure networks



Politejo Group was founded in 1978, as an industry specialized in the manufacture of thermoplastic solutions and its main activity is the production of pipes and plastic accessories for the water supply, waste water, irrigation, electricity and telecommunications.

Our strategy is based on the constant innovation of products and services, with a skilled team, able to understand the needs associated with the various sectors and present highly reliable solutions, longevity that allow the conservation of water resources and the environment.

The success of Politejo Group is based on the profile of its employees, with a family-oriented management, due to the strategic location of its manufacturing units and their complete solutions.

This profile enabled a notable growth throughout the last 40 years, and currently Politejo Group is present in Angola, Brazil, Spain, Mozambique and Portugal, with a view to expanding to new locations.

# CORRUGATED PIPE SN16

Ambidur SN16 PP corrugated pipes are produced in accordance with the EN 13476 standard and are mainly used in wastewater and rainwater systems. They were developed with the aim of creating a solution capable of ensuring durability and good performance in the medium/long term, regardless of any damage that the pipe may suffer during installation, depth or by improper compaction and soil types.



Environment



Durability

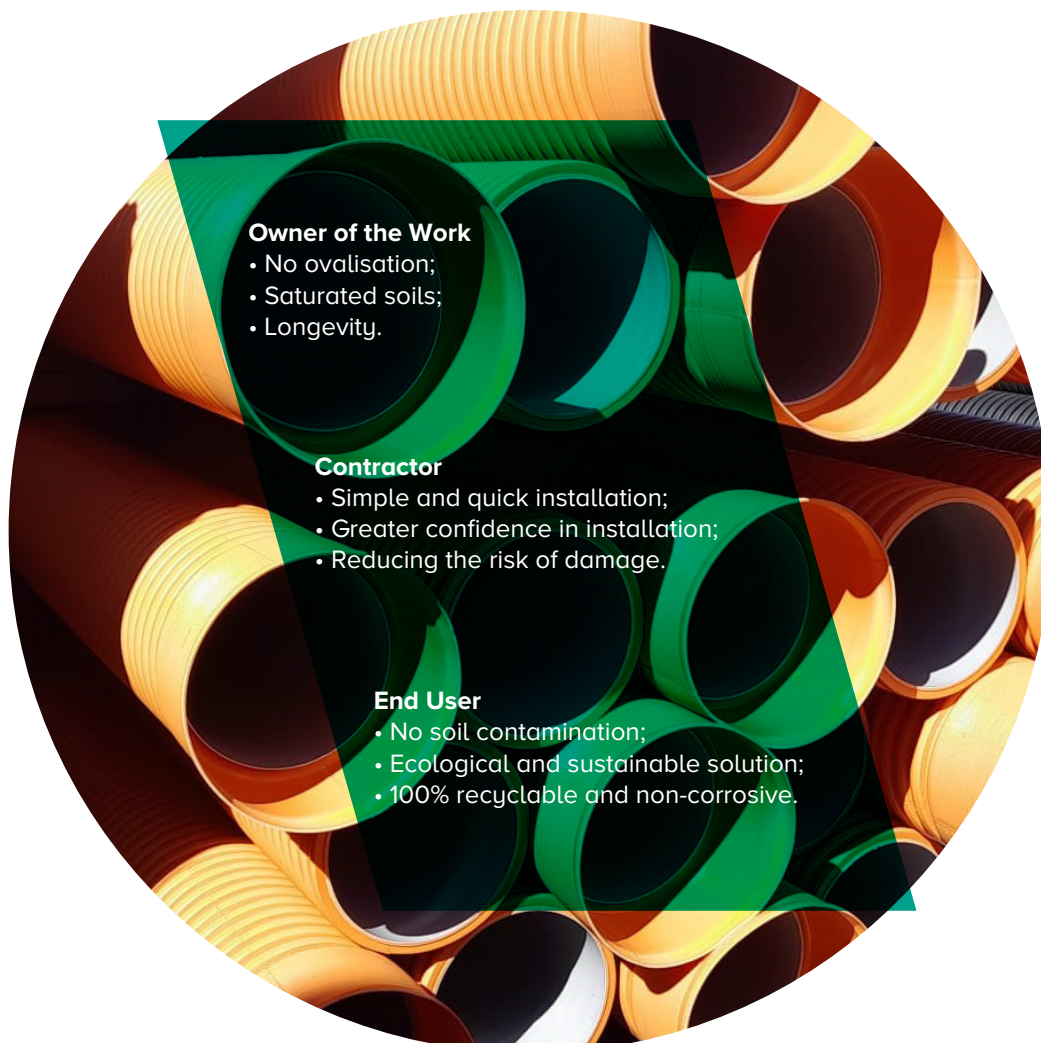


Safety



Installation

## Main Advantages



Ambidur SN16 stands out as an ecological and sustainable solution, it allows for greater safety and confidence in the installation, and the longevity of the network in good working order is assured. This solution offers the best quality, performance and price ratio.

The following advantages of this solution stand out:

**Installation performance**

- Easy handling without risk of damage and increased safety during installation.

**High circumferential stiffness (16 kN/m<sup>2</sup>)**

- No ovalisation above the permissible limit, resisting various types of soil and trench compaction.

**High installation depths**

- High capacity to support static and dynamic loads.

**Watertight**

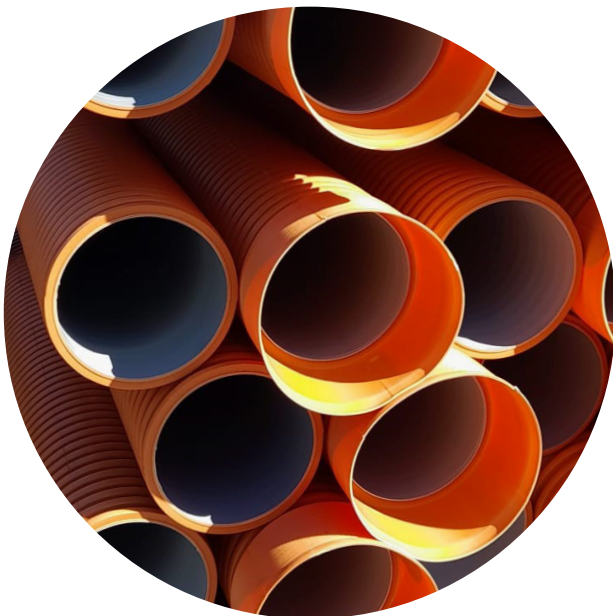
- Less water to treat and prevention of soil and water contamination.

**100% Recyclable**

- At the end of its useful life, which exceeds 50 years, the material is fully recyclable.

**High chemical, abrasive and temperature resistance**

- Resistant to the corrosive effect of waste water, non-abrasive due to its low coefficient of roughness and resistant to high temperatures.



**Possibility of using in the backfill of the trench excavated material for the backfill of the trench.**

**Allows installation in shallow and very deep trenches.**

**Increased reliability of the installation.**

**Particularly suitable for installations with high mechanical resistance requirements (ports, airports, motorways, etc.).**

## General features

The characteristics of polypropylene pipes with circumferential stiffness SN16 (kN/m ) are in accordance with EN 13476.

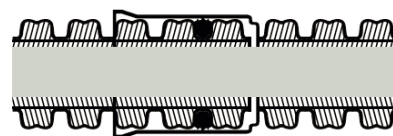
The construction of the wall of the PP corrugated pipes Type B, is obtained by co-extrusion, has a double wall construction, the corrugated outer wall is orange and the smooth inner wall is grey. Surfaces look smooth, clean and free of cracks, bubbles, impurities, pores or other surface defects.

The dimensions of "Ambidur" PP pipes are relative to the nominal external diameter (DN/OD), and shown in the table below:

DN	Outside diameter (mm)		Min. average int.diameter
	De. min.	De. max.	Di. min.
125	124,3	125,4	105,0
160	159,1	160,5	134,0
200	198,8	200,6	167,0
250	248,5	250,8	209,0
315	313,2	316,0	263,0
400	397,6	401,2	335,0
500	497,0	501,5	418,0
630	626,3	631,9	527,0
800	795,2	802,4	669,0
1000	994,0	1003,0	837,0
1200	1192,8	1203,6	1005,0

## Jointing system

The joint system of the Ambidur range forms an integral part of the pipework, enabling the joint to be joined simply and efficiently, with a seal lodged between the profile and the internal wall of the mouth of the pipe ensuring a watertight seal.



## Tests

According to the standard, Ambidur pipes undergo the following tests:

### Greenhouse Test

Performed according to the test method specified in ISO 12091

### Circumferential Stiffness Test

Performed according to the test method specified in EN ISO 9969

### Impact test

Performed according to the test method specified in EN ISO 3127

### Ring Flexibility Test

Performed according to the test method specified in EN ISO 13968

### Functional Characteristics

Leakage tests whose test method is described in the standard ISO 13259

### Creep Coefficient

Test method described in standard EN ISO 9967

### Mounting Recommendation

Before inserting the seal in the pipe profile, clean the mouth and the ring itself in order to eliminate sand and other substances that could damage the installation.

The lips of the sealing joint must be placed in such a way as to favour the insertion of the pipe, as shown in the following figures.

Before installing the pipes, the seal should be coated with a suitable lubricant.

During fitting, if pressure must be applied on the mouth of the pipe, it is recommended that a section of pipe be placed inside beforehand.

We recommend carrying out a water tightness test in accordance with standard EN 1610, ensuring the contractor complete confidence in the work carried out.

This can be done using the water or air method.

1

**IMPORTANT:** Before installing the seal on the pipe profile on the pipe profile, carefully clean the mouth and corrugation where the seal is to be fitted, to remove sand and other substances that could damage the installation.

**IMPORTANT:** Before installing the pipes, the seal must be impregnated with a suitable lubricant.

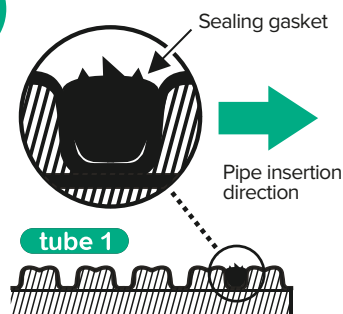
The following factors must be taken into consideration when installing Ambidur pipes:

- Minimum trench depth and width
- Trench bed levelling
- Pipeline alignment
- Filling material and compaction ratios

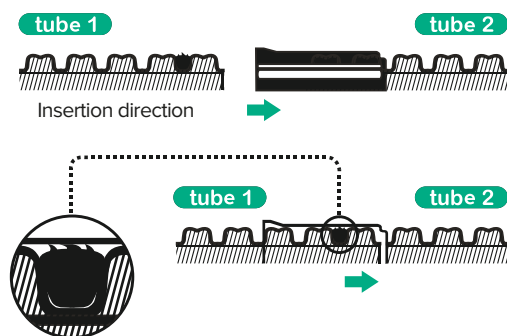


If in doubt, consult the manufacturer before starting installation

2

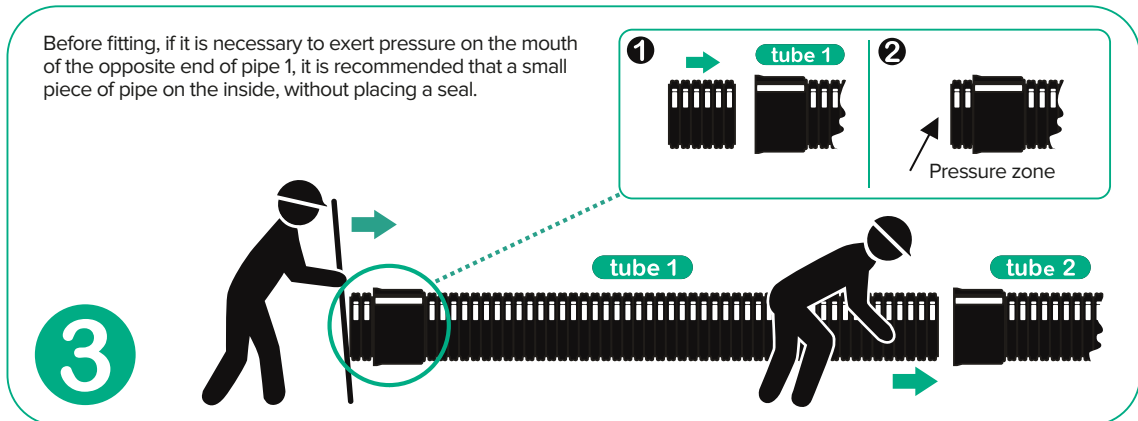


Place the seal between the first and second pipe end corrugation of the male pipe end. The lips of the seal must be in the direction to facilitate insertion of the pipe, as shown in the figure.



The watertight joint will be perfectly sealed between walls once the pipes have been properly joined.





### The ideal solution for wastewater and rainwater systems

- Water tightness;
- Eco-friendly solution;
- Impact resistance;
- Longevity in good condition;
- Installation performance (m/h);
- Adjustable on site to project specifications;
- Easy maintenance.



MANHOLE



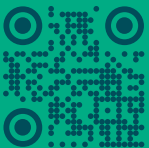
INSPECTION CHAMBER



Accessories



Solutions for  
a green future



[www.politejo.com](http://www.politejo.com)  
[geral@politejo.com](mailto:geral@politejo.com)

