

# CORRUGATED HDPE PIPES

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MODELS

AVAILABLE FOR SALE



## GENERAL DESCRIPTION

Corrugated HDPE pipes with double or single wall construction, whose external structure provides high strength and low weight. Their main application is the gravity flow conveyance of liquids. Manufactured from virgin polyethylene compounds, available in diameters ranging from 63 mm to 1000 mm, in compliance with the three most important standards on the market: AASHTO, ASTM and ISO.

Single-wall and double-wall corrugated pipes are available, as well as different colors, allowing even multiple colors within the same pipe. Pipes can be perforated for drainage applications. Perforations are manufactured in accordance with the AASHTO Class II standard.

## FEATURES

- High stiffness.
- Resistance to static and dynamic loads.
- Lightweight, easy to handle and install.
- Excellent hydraulic capacity.
- Quick male-female joint connection.
- Chemical resistance.
- UV protection.
- Long service life.
- Wide range of special fittings.

## APPLICATIONS

- Stormwater drainage.
- Wastewater conveyance.
- Roadway crossings.
- Drainage systems.
- Leachate piles.
- Channels.
- Bioleaching pile aeration.
- Electrical conduit systems.

## TECHNICAL CHARACTERISTICS

| STANDARD  | NOMINAL DIAMETER | AVERAGE INTERNAL DIAMETER | AVERAGE EXTERNAL DIAMETER | ANULAR STIFFNESS AT 5% DEFLECTION |
|---|------------------|---------------------------|---------------------------|-----------------------------------|
| AASHTO M252<br>NCh 2465<br>ASTM F2648               | 63 mm (2")       | 53 mm                     | 63 mm                     | 50 psi (345 kN/m <sup>2</sup> )   |
|   | 110 mm           | 94 mm                     | 110 mm                    | 50 psi (345 kN/m <sup>2</sup> )   |
|   | 100 mm (4")      | 101 mm                    | 118 mm                    | 50 psi (345 kN/m <sup>2</sup> )   |
|   | 160 mm           | 135 mm                    | 160 mm                    | 50 psi (345 kN/m <sup>2</sup> )   |
|   | 150 mm (6")      | 152 mm                    | 177 mm                    | 50 psi (345 kN/m <sup>2</sup> )   |
|   | 200 mm (8")      | 200 mm                    | 233 mm                    | 50 psi (345 kN/m <sup>2</sup> )   |
|   | 250 mm (10")     | 248 mm                    | 291 mm                    | 50 psi (345 kN/m <sup>2</sup> )   |
| AASHTO M252<br>NCh 2465<br>ASTM F2306<br>ASTM F2648 | 300 mm (12")     | 308 mm                    | 367 mm                    | 50 psi (345 kN/m <sup>2</sup> )   |
|   | 375 mm (15")     | 380 mm                    | 448 mm                    | 42 psi (290 kN/m <sup>2</sup> )   |
|   | 450 mm (18")     | 461 mm                    | 539 mm                    | 40 psi (275 kN/m <sup>2</sup> )   |
|   | 600 mm (24")     | 610 mm                    | 705 mm                    | 34 psi (235 kN/m <sup>2</sup> )   |
|   | 800 mm (32")     | 800 mm                    | 910 mm                    | 26 psi (180 kN/m <sup>2</sup> )   |
|   | 1000 mm (40")    | 1000 mm                   | 1140 mm                   | 21 psi (145 kN/m <sup>2</sup> )   |



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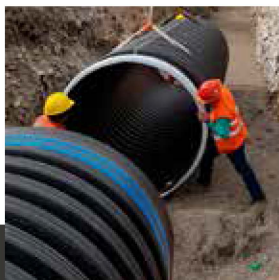
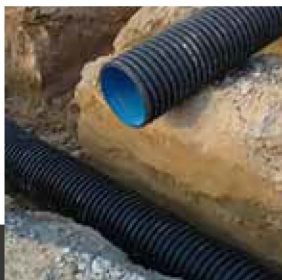
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## EFFICIENCY IN NON-PRESSURIZED LIQUID TRANSPORT

| ASTM D2321 |                                       | ASTM D2487 |   | MATERIAL DEL ENCAMADO          |                               |                |                | E. psi (kPa) para el grado de compac. Del Encamado |                  |                 |
|------------|---------------------------------------|------------|---|--------------------------------|-------------------------------|----------------|----------------|--|------------------|-----------------|
|            | DESCRIPTION                           | NOTATION   | DESCRIPTION   | AASHTO M43 NOTACIÓN            | DENS. MIN. ESTÁNDAR PROCTOR % | PROFUNDIDAD    | CARGADO        | MÍNIMO <85%  | MODERADO 85%-95% | MÁXIMO >95%     |
| IA         | CLEAN, OPEN-GRADED AGGREGATES         | N/A        | Crushed stone or crushed gravel, clean, with no fines.  | 5<br>56                        | DESCARGADO                    | 18"<br>(0.45m) | 1000<br>-6.900 | 3000<br>-20.700                                    | 3000<br>-20.700  | 3000<br>-20.700 |
| IB         | DENSE-GRADED AGGREGATES               | N/A        | Processed aggregates manufactured from crushed stone or gravel, including a mixture of stone and sand.      |                                |                               |                |                |  |                  |                 |
| II         | CLEAN GRANULAR SOILS                  | GW         | Pre-selected gravel, gravel/sand mixtures with little or no fines   | 57<br>ó<br>67                  | 85%                           | 12"<br>(0.30m) | N/R            | 1000<br>-6.900                                     | 2000<br>-13.800  | 3000<br>-20.700 |
|            |                                       | GP         | Poorly graded, pre-selected gravel, gravel/sand mixtures with little or no fines                            |                                |                               |                |                |  |                  |                 |
|            |                                       | SW         | Pre-selected sand, sand-gravel mixtures with little or no fines   |                                |                               |                |                |  |                  |                 |
|            |                                       | SP         | With little or no fines   |                                |                               |                |                |  |                  |                 |
| III        | FINE SOILS                            | GW         | Silty sands, gravel-sand-silt mixtures, with up to 10% fines.   | GRAVEL AND SAND WITH FINES 10% | 90%                           | 9"<br>(0.20m)  | N/R            | N/R  | 1000<br>-6.900   | 2000<br>-13.800 |
|            |                                       | GC         |   |                                |                               |                |                |  |                  |                 |
|            |                                       | SM         | Silty sand and sand-silt mixtures   |                                |                               |                |                |  |                  |                 |
|            |                                       | SC         |   |                                |                               |                |                |  |                  |                 |
| IV         | INORGANIC FINE SOILS                  | ML         | Inorganic silts and very fine sands, rock flour, fine silty or clayey sands, and silts with some plasticity |                                |                               |                | N/R            | N/R  | N/R              | 1000<br>-6.900  |
|            |                                       | CL         | Inorganic clays with low to medium plasticity, silty or sandy clays   |                                |                               |                |                |  |                  |                 |
| IVB        | INORGANIC FINE SOILS                  | MH         | Inorganic silts and sands, fine sand soils, elastic soils   |                                |                               |                |                |  |                  |                 |
|            |                                       | CH         | Inorganic clays of high plasticity  |                                |                               |                |                |  |                  |                 |
| V          | ORGANIC SOILS OR HIGHLY ORGANIC SOILS | OL         | Organic silts and organic silty clays of low plasticity   |                                |                               |                | N/R            | N/R  | N/R              | N/R             |
|            |                                       | OH         | Organic clays of medium to high plasticity, organic silts   |                                |                               |                |                |  |                  |                 |
|            |                                       | PT         | Other highly organic soils  |                                |                               |                |                |  |                  |                 |



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