

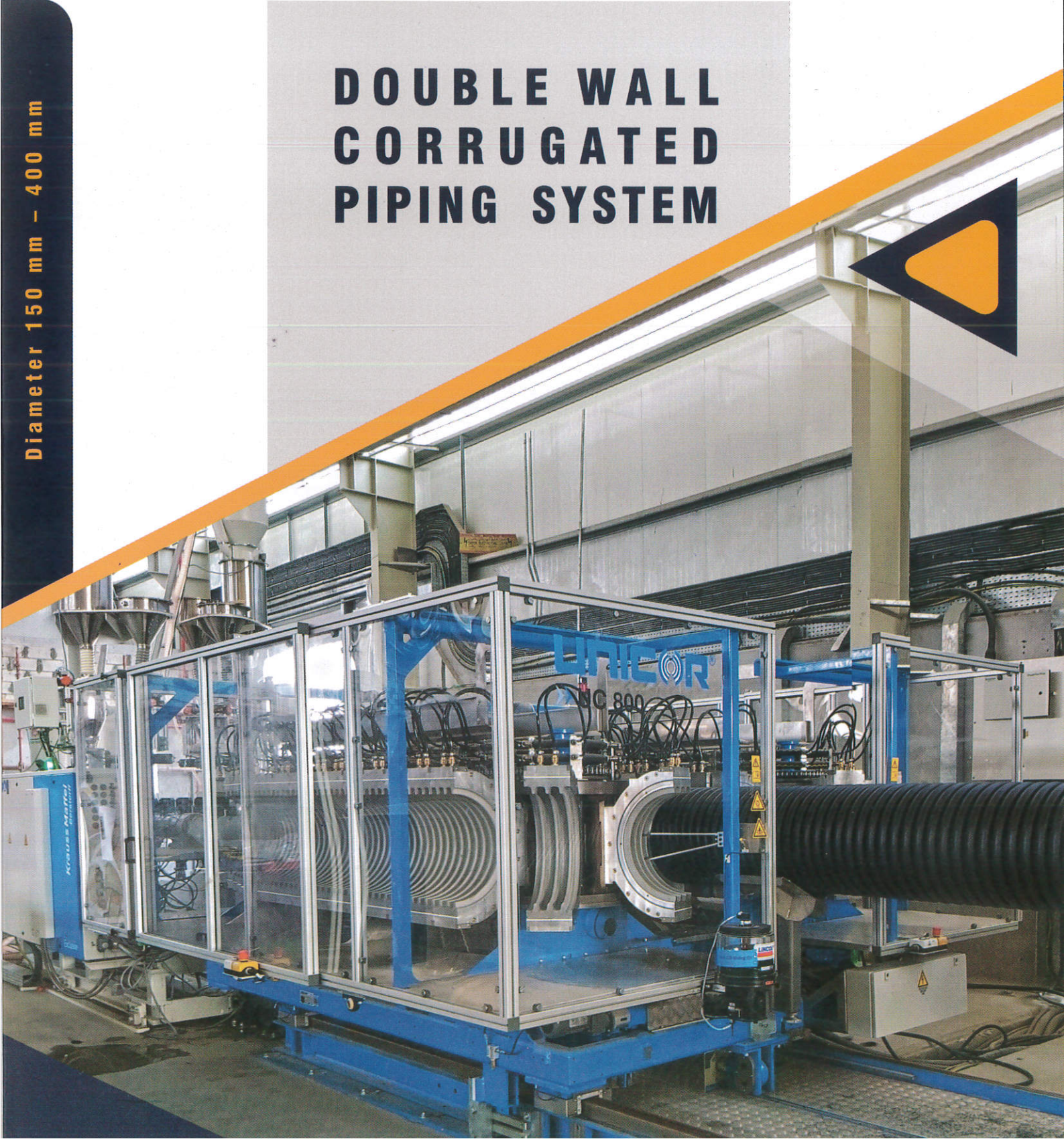
LAFFAN

مصنع لفان للأنايب

LAFFAN PIPES FACTORY

DOUBLE WALL CORRUGATED PIPING SYSTEM

Diameter 150 mm - 400 mm





■ HDPE Corrugated Piping System is Designed for

- Sanitary sewer and household effluent water
- Secondary and urban collection network
- Rain water collection
- Industrial effluent water
- Gravity water flow
- Cable Duct pipes

■ Main Advantage of HDPE Corrugated Pipes

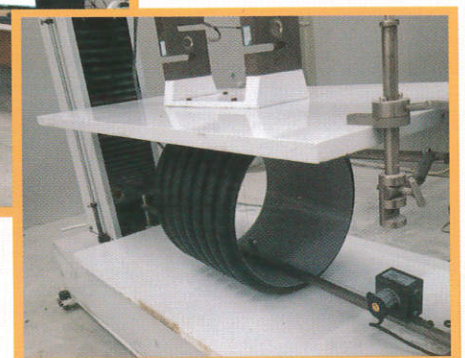
- Resistant to chemical attack
- Resistant to abrasion
- Highly flexible
- Highly resistant to impact
- Fully leak-tight and watertight
- Light weight
- Smooth inner surface
- Easy to handle & transport
- Easy to join
- Resistant to degradation by UV rays
- Useful lifetime of over 100 years
- Easy inside visual inspection
- Non-polluting, recyclable material

■ Raw Material

The raw material used in the production of HDPE pipes

- Raw material
- Outer surface colour
- Inner surface colour
- Raw material density
- Melt flow index (190°C/2.16kg)

HDPE
Black
Gray
0.955 g/cm³
ASTM D1505
0.35 g/10 min.
ASTM D1505



Installation

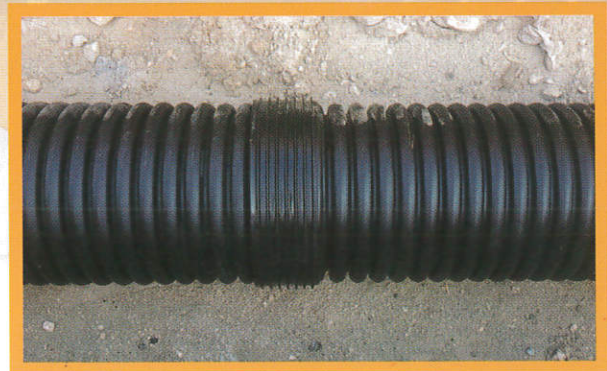
Corrugated piping system are designed to make installation quicker and easier. Installation is as much a part of the costing equation as ease of maintenance and the cost of the pipe system itself. The most important advantages in installation are the lightness, flexibility and the coupled jointing method. Corrugated piping system provide the simplest, most economic solution. Our recommendation for the installation of HDPE corrugated pipe is to follow the requirements mentioned in ASTM D2321

■ Tests on Pipes

TEST METHOD	REQUIREMENT	STANDARD
Ring Stiffness Test	SN8	ISO 9969
Ring Flexibility	up to 30%	EN 1446
Impact Strength	no crack	EN 744
Joint Tightness	no leak	EN 1277
Dimension	Table 5	EN 13476-3

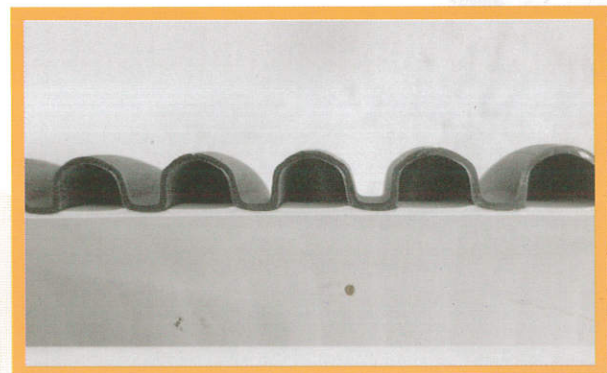
■ Pipes joint

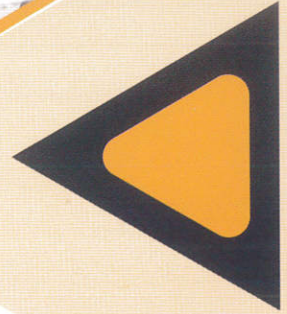
The corrugated pipe can be joined by ribbed integrated socket made by injection molding or external double socket. Such pipe joint are supported by EPDM gasket to provide absolute water tightness.



■ Standards

High-density polyethylene (HDPE) double wall pipes and pipes fittings are manufactured according to EN 13476-3.





HDPE DOUBLE WALL CORRUGATED PIPE ■

HDPE Double wall corrugated pipes have a smooth – surfaced inner wall (colored gray) surrounded by a profiled outer wall (colored black). The corrugated outer wall provides optimum strength under compression loading.

Inside diameter ID (mm)	Outside diameter OD (mm)	Pipe ring stiffness (kN/m ²)
150	172.5	8
200	230	8
300	345.5	8
400	460	8

Diameter 150 mm – 400 mm



ص.ب: ٥٠٣١١، الدوحة - قطر، س.ت: ١٢٩٢٦٧
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DOUBLE WALL CORRUGATED PIPING SYSTEM