

HDPE DOUBLE WALL CORRUGATED PIPE FOR DRAINAGE SYSTEM

排水用HDPE双壁波纹管道系统

HDPE双壁波纹管材是以高密度聚乙烯为原料的一种新型轻质管材，具有重量轻、耐高压、韧性好、施工快、寿命长等特点，其优异的管壁结构设计，与其他结构的管材相比，成本大大降低。并且由于连接方便、可靠，在国内外得到广泛应用。大量替代混凝土管和铸铁管。主要用于市政排水，公路施工排水，下水道排水等。

HDPE double wall corrugated pipe is a new type of lightweight pipe made from high-density polyethylene. It has the characteristics of light weight, high pressure resistance, good toughness, fast construction, and long service life. Its excellent wall structure design greatly reduces the cost compared to other structural pipes. And due to its convenient and reliable connection, it has been widely used both domestically and internationally. A large number of replacements for concrete pipes and cast iron pipes. Mainly used for municipal drainage, rainwater sewerage, road construction drainage, sewer drainage, etc.

HDPE双壁波纹管材

HDPE Double Wall Corrugated pipe

Introduction



Main features:

- 1. The product structure is unique, with high external pressure resistance and impact resistance,
- 2. The inner wall is smooth with low friction, and pipes with the same inner diameter can pass through a larger flow rate;
- 3. The product has a socket interface, flexible connection, good interface sealing, corrosion resistance, zero leakage, no scaling, and avoids secondary pollution, making it an ideal "environmentally friendly pipe";
- 4. The product has good flexural performance and can adapt to uneven soil settlement;
- 5. Long service life, buried underground can be used for more than 50 years;
- 6. The product is lightweight, easy to construct, can reduce construction costs, and shorten construction cycles;

Standard

Production Standard: BS EN13476-2:2007,BS EN13476-3:2007,GB/T19472-1.

Diameter range: DN200-DN800

Specification

Nominal Inner Dia (mm)	Outside Thickness (mm)	Inside Thickness (mm)	Connection Length (mm)
DN200	1.1	1.5	54
DN300	1.7	2	64
DN400	2.3	2.5	74
DN500	3	3	85
DN600	3.5	3.5	96
DN800	4.5	4.5	118

Performance Index

Item		Unit	Index
Falling weight Test			≤10%
Ring Flexibility			The sample is smooth and pipe wall is no crack
Ring Stiffness	SN2	KN/m²	≥2
	SN4	KN/m²	≥4
	SN8	KN/m²	≥8
Oven test			No bubbles,no delamination,no rupture
Creep ratio			≤4

HDPE STEEL BAND REINFORCED SPIRAL CORRUGATED PIPE FOR DRAINAGE SYSTEM

排水用HDPE钢带增强螺旋波纹管

HDPE钢带增强螺旋波纹管是由钢塑复合的异型带材经螺旋缠绕焊接（搭接面上挤出焊接）制成，其内壁光滑平整，规格为DN300-DN2200mm。该种管材具有耐腐蚀、质量轻、安装简便、通流量大、寿命长（50年）等优点，可替代高能耗材质（水泥、铸铁、玻璃钢、陶瓷等）制作的管材，属环保型绿色产品。广泛用于市政排水，雨水排水，公路建设排水等排水工程。

HDPE steel band reinforced spiral corrugated pipe is made of steel plastic composite irregular strip by spiral winding welding (extrusion welding on the lap surface), with a smooth and flat inner wall and a specification of DN300-DN2200mm. This type of pipe has advantages such as corrosion resistance, light weight, easy installation, large flow rate, and long service life (50 years). It can replace pipes made of high-energy consumption materials (cement, cast iron, fiberglass steel pipes, ceramics, etc.) and is an environmentally friendly green product. Widely used in municipal drainage, rainwater drainage, road construction drainage and other drainage projects.

HDPE钢带增强螺旋波纹管材

HDPE steel band reinforced spiral corrugated pipe

Introduction



Main features:

- 1. Chemical resistance: not contaminated, corroded by wastewater and chemicals, and not corroded by decaying substances in the soil;
- 2. Impact resistance: The pipe wall adopts a U-shaped structure, which is resistant to impact and pressure, and does not rupture even when the foundation sinks. Moreover, it has strong resilience after deformation and good adaptability to the foundation;
- 3. Aging resistance: The pipes are usually black and can withstand direct sunlight during storage and construction;
- 4. Cold resistance: The pipe material will not freeze crack, expand or leak water in an environment of -60 °C;
- 5. Light weight: easy to transport, easy to construct, 1/8 of the weight of cement pipes, only requires excavators to bury pipes, without the need for large equipment;
- 6. Convenient connection: The pipes can be connected outside the trench and pushed into the trench with an excavator, reducing construction time and cost;

Standard

Production Standard: BS EN13476-2:2007,BS EN13476-3:2007,GB/T19472-1.

Diameter range: DN300-DN2200

Specification

Nominal Inside Dia (mm)	Inside Thickness (mm)	Outside Thickness (mm)	Spiral spacing (mm)	Steel band thickness (mm)
DN300	2.5	4.0	75	0.4
DN400	3.0	4.5	85	0.4
DN500	3.5	5.0	100	0.5
DN600	4.0	6.0	110	0.5
DN700	4.0	6.0	115	0.5
DN800	4.5	7.5	120	0.7
DN1000	5.0	8.0	150	0.7
DN1200	5.0	8.0	180	0.7
DN2000	6.0	9.0	235	1.0
DN2200	6.5	9.5	250	1.2

Performance Index

Item		Index
Ring Stiffness (KN/m²)	SN8	≥8
	SN10	≥10
	SN12.5	≥12.5
Falling weight Impact Test(TIR%)		≤10
Peeling extend		≥100
Pipe wall tensile strength	300≤DN/ID≤500	≥600
	600≤DN/ID≤800	≥840
	900≤DN/ID≤1200	≥1020
Creep ratio		≤2