

ZHSU[®]



HDPE DOUBLE-WALL CORRUGATED PIPE

To Life[+] a Health

HDPE DOUBLE-WALL CORRUGATED PIPE

HDPE double wall corrugated pipe is a new pipeline system whose material is high-density polyethylene. It has the virtue of light weight, withstand voltage, flexible and long live etc. Compared with other pipes, its good pipe wall structural design reduce the cost observably.

HDPE Double-Wall Corrugated Pipe

Material: High Density Polyethylene

Size: 200mm to 800mm

Ring Stiffness: SN4 and SN8

Color: outside black color, inside blue color or other colors upon request

Standard: GB/T19472.1 (Chinese standard) and prEN 13476-1 (international standard)

Length: 6 or 12 meters or other upon reques.

Physical Properties

Items	Technical Requirements
Ring Stiffness	$S1 \geq 4KN/m^2$, $S2 \geq 8KN/m^2$
Impact Strength(TIR)	$\leq 10\%$
Ring Flexibility	Test Sample Should Be Smooth, No Reversed Flexure , No Crack, No Delamination
Oven Test	No Air Bubble, No Delamination, No Crack
Creep Rate	≤ 4

Advantages

High strength: good compressive resistance and impact resistance.

Differential Settlement Resistance: low requirements for foundation treatment, suitable for soft soil or quicksand foundation.

High Flow Capacity: smooth internal walls and low friction result in low flow resistance and high volume

Corrosion Resistance: resistant to sewage, waste water, chemicals and putrilage in soil.

Convenient installation: lightweight, easy to transport and install, pipe burying only needs ditcher instead of large equipment, shorten time limit and cut cost.

Applications

Municipal sewage, rainwater discharge, floodwaters drainage, irrigation, ventilation for mine and buildings, industrial waste discharge

Outer Diameter Series Pipe Size

Unit:(mm)

Nominal Inner Diameter DN/OD	Min.Average Outer Diameter $d_{em,min}$	Max. Average Outer Diameter $d_{em,max}$	Min. Average Inner Diameter $d_{im,min}$	Min. Wall Thickness Of Laminate e_{min}	Min. Inner Wall Thickness $e_{1,min}$	Bonding Length A_{min}
110	109.4	110.4	90	1.0	0.8	32
125	124.3	125.4	105	1.1	1.0	35
160	159.1	160.5	134	1.2	1.0	42
200	198.8	200.6	167	1.4	1.1	50
250	248.5	250.8	209	1.7	1.4	55
315	313.2	316.0	263	1.9	1.6	62
400	397.6	401.2	335	2.3	2.0	70
500	497.0	501.5	418	2.8	2.8	80
630	626.3	631.9	527	3.3	3.3	93
800	795.2	802.4	669	4.1	4.1	110
1000	994.0	1003.0	837	5.0	5.0	130
1200	1192.8	1203.6	1005	5.0	5.0	150

Inner Diameter Series Pipe Size

Unit:(mm)

Nominal Inner Diameter DN/ID	Min.Average Inner Diameter $d_{im,min}$	Min. Wall Thickness Of Laminate e_{min}	Min. Inner Wall Thickness $e_{1,min}$	Bonding Length A_{min}
100	95	1.0	0.8	32
125	120	1.2	1.0	38
150	145	1.3	1.0	43
200	195	1.5	1.1	54
225	220	1.7	1.4	55
250	245	1.8	1.5	59
300	294	2.0	1.7	64
400	392	2.5	2.3	74
500	490	3.0	3.0	85
600	588	3.5	3.5	96
800	785	4.5	4.5	118
1000	985	5.0	5.0	140
1200	1185	5.0	5.0	162

Projects

Municipal engineering: pipelines for water supply for buildings in the city, drinking water, fire-fighting water, heat-supply network backwater, gas, and natural gas transmission and so on.

Oil & gas field: process pipes for oil wastewater, gas-field wastewater, oil and gas mixture, secondary and tertiary oil extraction as well as collection and transmission.

Seawater transmission: seawater transmission for seawater desalination plants and coastal cities. izers, pharmacy, textile, printing and dyeing, rubber, plastics etc.

Shipbuilding: shipboard sewers, drainpipes, ballast water pipes, and vent pipes and so on.

Electrical engineering: conveying pipes for process water, dedusting, backwater, water supply, fire-fighting water, dust separation, and residue and so on.

Agricultural irrigation: deep pipes, sewers, conveying pipes in culverts, drainpipes, and pipes for irrigation and so on.

Metallurgical and mining: vent pipes and process pipes for transmission of corrosive media, ore pulp, and tailings in the process of non-ferrous metal smelting.

Highway: underground drainpipes and cable conduits.

Coal industry: pipes for water supply and discharge, spouting pipes and gas drainage pipes etc. in coal mines.

Chemical industry: process pipes and drainpipes for conveying corrosive gas, liquid, and solid powder in such industries as acid, alkali, salt manufacturing, petroleum, chemicals, fertilizers, pharmacy, textile, printing and dyeing, rubber, plastics etc.

Textile & dyeing: conveying pipes and drainpipes for transmission of corrosive media.

