



TIGERSHIELD INDUSTRIAL CORPORATION



- SEWAGE AND STORM DRAINAGE SYSTEM
- SEWAGE TREATMENT PLANT
- INDUSTRIAL WASTE DISCHARGE
- MIXED WATER CHANNEL
- IRRIGATION
- MINE AND BUILDINGS
- ROAD/HIGHWAY CROSS DRAINAGE

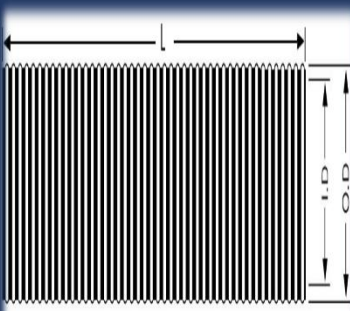


BLUERIBBON HDPE DUAL WALL CORRUGATED PIPES

Blueribbon HDPE Dual wall corrugated pipes are similar to normal HDPE pipes except that they have different external & internal surfaces which gives them additional strength and stiffness. These are made with High Density Polyethylene which has very high life expectancy. These are externally corrugated and have smooth surface inside and are available from 150 mm to 2000 mm diameter. The Pipes provide important benefits and distinct advantages for Sewer and Drainage application.

Standard Length

The Standard length 6 to 12 meters making it easier to store, handle and transport.



Being free from corrosion, chemical reactivity and excellent abrasion resistance these pipes can last over a century.

BENEFITS AND ADVANTAGES

- **LIGHTWEIGHT** Blueribbon HDPE Dual Wall Corrugated Pipes are lighter than other traditional pipes. Result in quick and reliable installation. The pipe can be transported easily to job site, even in poor ground condition.
- **FLEXIBLE** Allowing them to adjust to different loading conditions, stresses, vibrations and soil movements without causing damage to the pipes. Situation is opposite for rigid pipes, which break when their crush strength is exceeded.
- **EASY INSTALLATION** Installing the pipes is simple and easy. Important factors are lightweight of the pipe, ease of handling, transporting to job site and method of installation (rubber ring joint). Longer pipe lengths speed up installation time, reduce number of joints, hence reducing the number of potential leaks and help reduce the installation costs.
- **CHEMICAL and ABRASION RESISTANT** Have excellent chemical resistance and are unaffected by soils and sewerage effluents with wide range of PH. It is highly resistant to the wet, hydrogen sulfide gas and the low concentration acid found in sanitary sewer. Blueribbon HDPE Dual Wall Corrugated Pipes have superior abrasion resistant qualities. Installed correctly, HDPE Corrugated sewer and drainage pipe systems can provide long service life.
- **HYDRAULIC EFFICIENCY** The Smooth interior of Blueribbon HDPE Dual Wall Corrugated Pipe provides the superior flow characteristics that are essential for conveying and discharging fluids. Does not corrode or tuberculate and maintain its floe capability over time.
- **STRUCTURAL PERFORMANCE** Is an extremely tough materials that can easily withstand normal impacts involved in transportation and installation. The strength of Blueribbon HDPE Dual Wall Corrugated Pipe is derived from its corrugated profile, allow it to support compressive loading from covering layers and traffic.



TECHNICAL DATA (Pipe Diameter)

BLUERIBBON HDPE DUAL WALL CORRUGATED PIPES

CONNECTING FUSION

SIZE	DN / ID (mm)	DN / OD (mm)	PITCH (mm)
150 mm	150 mm	167 mm	17.5 mm
200 mm	217 mm	224 mm	17.5 mm
250 mm	247 mm	287 mm	27 mm
300 mm	297 mm	333 mm	27 mm
400 mm	396 mm	442 mm	30 mm
500 mm	495 mm	556 mm	47.5 mm
600 mm	594 mm	650 mm	34.5 mm
700 mm	693 mm	739 mm	46.3 mm
800 mm	792 mm	868 mm	46.3 mm
900 mm	891 mm	958 mm	47.5 mm
1000 mm	990 mm	1092 mm	52.3 mm
1200 mm	1188 mm	1235 mm	59.1 mm
1300 mm	1287 mm	1353 mm	65.9 mm
1400 mm	1386 mm	1452 mm	65.9 mm
1500 mm	1485 mm	1563 mm	87.5 mm
1600 mm	1584 mm	1672 mm	87.5 mm
1800 mm	1782 mm	1867 mm	87.5 mm
2000 mm	1980 mm	2062 mm	87.5 mm

Approximate Measurement but minimal tolerance mm.

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287 mm
333 mm
442 mm
556 mm
650 mm
739 mm
868 mm
958 mm
1092 mm
1235 mm
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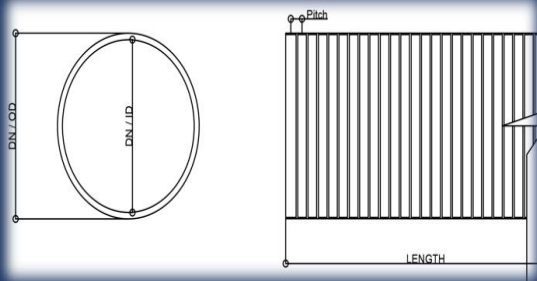
HDPE stands for High - Density Polyethylene. New type of pipe with smooth inner wall and ring - shaped outer wall structure. Environment friendly product that combines the corrosion resistance of plastic with toughness of steel.

HDPE HOLLOW WOUND DRAINAGE PIPE CONNECTION



Offered from 150 to 2000mm dia. sizes in SN 4 and SN 8 stiffness class. These pipes are made available in plain end form as well as with integral sockets along with necessary fittings. Assembly jig required for the installation is also made available.

1. Socket and socket type electric hot melt connection.
2. Flaring socket type gasket connection
3. Connection of thermal shrinking sleeve.



JOINTING PROCEDURE

Jointing procedure for pipes with integral socket

- Take two pipes with integral sockets and one EPDM sealing ring. Ensure that the pipe socket is free from any damage.
- Fit EPDM rubber seal into the first corrugation of the plain ended pipe, making sure that the seal is correctly placed.
- Ensure the seal is not twisted.
- Align the socket end of pipe with non socket end of the another pipe.
- Clean and remove dirt/dust/water etc. from the pipe ends and sockets. Mount the fixture on plain end of pipe and on socketed end of another pipe for Joining. Fixture should be duly placed in the grooves for better holding.
- Apply Silaid rubber lubricant on the EPDM rubber ring and the inner surface of socket.
- Place the pulling arms of the fixture on either side on the appropriate pin.
- Pull the pipes in to the socket till it reaches the stopper end.
- Remove the fixture and clean extra lubricant from the pipe ends.
- Ensure that the fitment is secure, and the socket is not damaged or broken or burst/open anywhere. Continue the same process for all socketed pipe joints.

Jointing procedure for plain ended pipes

- Take two pipes, two sealing rings and one coupler.
- Fit EPDM rubber rings into the first corrugation of each pipe, making sure that the seals correctly placed.
- Clean the pipe ends, socket of the coupler and rubber sealing rings and apply lubricant on the sealing ring placed on the pipe ends and inside of the coupler socket up to the pipe stopper.
- Align the pipe ends and coupler socket, face to face and put the jointing fixture over the pipe end and coupler. With the help of fixture, pull the coupler in to the pipe till the pipe reaches to the stopper end.
- Follow the same procedure for joining of coupler socket to another plain end pipe.



RING STIFFNESS TESTING



The ring stiffness of a pipe describes the force-deformation ratio under a radially acting external mechanical load. Ring stiffness corresponds to an upward slope in the force-deformation curve. Tigershield Plant Conduct testing for the Ring Stiffness of the Blueribbon HDPE Dual Wall Corrugated Pipe.



TIGERSHIELD
INDUSTRIAL CORPORATION



PUROK 6, GONZALES SUBD. BONGA MAYOR,
BUSTOS BULACAN



TIGERSHIELDINDUSTRIALCORP@GMAIL.COM

