

ATLANTA HDPE SPIRAL PIPE

LARGE DIAMETER DRAINAGE AND SEWER PIPING SYSTEM



Subdivision



Golf Area



Landfill



Road Construction



ATLANTA INDUSTRIES, INC.



APPLICATIONS

1. Storm drain and under-drain under foot ways
2. Under-drain under "U" shape open gutter
3. Slope drain
4. Catch drain for gushy water
5. Building lots for factories
6. Land-slippage protection
7. Home lots
8. Drainage for sports and school grounds
9. Drainage for agricultural field
10. Treatment site for anti-pollution industries
11. Storm drain in golf courses
12. Drain from back filling into tunnel walls

ADVANTAGES



EASY TO INSTALL

The Atlanta Spiral is easy to hand-carry and to install without the use of mechanical devices. Screw-type couplings make pipe-to-pipe connections faster and easier.



MODERN & FLEXIBLE

The Atlanta Spiral comes in standard 5.5M lengths. And because it is made of high-grade HDPE, it is sufficiently flexible to follow ground contours.



HIGH-FLOW CAPACITY

The interior surface of the Atlanta Spiral is smooth to maximize flow and minimize the accumulation of silt, and reduce possibilities of clogging.



CORROSION-PROOF

The Atlanta Spiral is not affected by any form of microbiological corrosion or attacks of fungi or chemicals. It is the ideal drainage system for industrial plants and factories.



ECONOMICAL

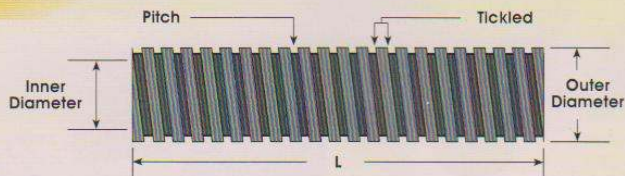
Unlike conventional pipes which are very heavy, the Atlanta Spiral is light weight and provides substantial savings on transportation, installation materials and equipment breakage.



TOUGH

The Atlanta Spiral is made of superior high-density polyethylene (HDPE) resins and is excellent for local all-weather conditions. With its modified external rib reinforcement it can withstand external pressure.

SPECIFICATIONS



Nominal Diameter (in)	Nominal Diameter (mm)	Inner Diameter (mm)	Outer Diameter (mm)	Ticked (mm)	PITCH (mm)	Connect Size (mm)	Length (M)
4	100	100 ± 1.5	116 ± 1.5	8.0 ± 0.6	15.0 ± 0.6	155	5.5
6	150	150 ± 2.0	173 ± 2.0	11.5 ± 0.7	18.0 ± 0.7	185	5.5
8	200	200 ± 2.5	231 ± 2.5	15.3 ± 0.8	25.0 ± 0.8	260	5.5
10	250	250 ± 2.5	281 ± 2.5	15.5 ± 0.8	27.0 ± 0.8	260	5.5
12	300	300 ± 3.0	331 ± 3.0	15.7 ± 1.0	30.0 ± 1.0	335	5.5
14	350	350 ± 3.0	381 ± 3.0	15.7 ± 1.0	30.0 ± 1.0	335	5.5
16	400	400 ± 4.0	439 ± 4.0	19.5 ± 1.2	38.0 ± 1.2	435	5.5
18	450	450 ± 4.0	489 ± 4.0	19.5 ± 1.2	38.0 ± 1.2	440	5.5
20	500	500 ± 4.5	546 ± 4.5	23.0 ± 1.2	45.0 ± 1.2	450	5.5
24	600	600 ± 5.0	660 ± 5.0	30.0 ± 1.4	55.0 ± 1.4	450	5.5
36	900	900 ± 8.0	988 ± 8.0	44.0 ± 2.0	72.0 ± 2.0	900	5.5

PHYSICAL PROPERTY

Property	Unit	Typical Value	Test Method	
Density	g/cm ²	0.95	ASTM D 1505	KSM3016
Tensile Strength	kg/cm ²	250	ASTM D 638	KSM3006
Ultimate Elongation	%	>200	ASTM D 638	KSM3006
Tensile Modulus of Elasticity	kg/cm ²	7500	ASTM D 638	KSM3006
Flexural Modulus	kg/cm ²	250	ASTM D 780	KSM3008
Impact Strength (IZOD)	kg-cm/cm ²	>12	ASTM D 256	KSM3055
Brittleness Temperature	°C	-70	ASTM D 148	-
Heat Distortion Temperature	°C	78	ASTM D 648	-
Coefficient of Linear Thermal Expansion	°C	2X10 ⁻⁴	ASTM D 696	KSM3060
(23°C, hr) Water absorption	mg	0.01	DIN 53472	KSM3027
Surface resistivity	Ohm	>10 ¹³	DIN 53482	KSM30334
Volume resistivity	Ohm X cm	10 ¹⁴	DIN 53482	-
Dielectric constant	-	2.32	DIN 53484	KSM304
(Sheet/mm) Dielectric Strength	KV/cm	400	DIN 53481	-

APPLICABLE CHEMICAL SOLUTION

Chemical Name	Temperature		Chemical Name	Temperature	
	23°C	60°C		23°C	60°C
HCL (10%)	○	○	NaOH (50%)	○	○
HCL (35%)	○	○	Na ₂ CO ₃	○	○
H ₂ SO ₄ (50%)	○	○	CH ₃ COOAg	○	○
H ₂ SO ₄ (70%)	○	△	NH ₄ OH	○	○
H ₂ SO ₄ (90%)	△	X	H ₂ O ₂	○	○
CH ₃ COOH (25%)	○	○	Cl ₂ (100%)	X	X
CH ₃ COOH (50%)	△	X	Sea Water	○	○
H ₃ PO ₄ (50%)	○	○	CCL ₄	X	X
H ₃ PO ₄ (90%)	○	X	CH ₃ OH	○	
HF (60%)	○	△	Gasoline	△	
HF (100%)	○	○	Milk	○	○
Cr ₂ O ₃	○	○	Beer	○	○
Ca(OH) ₂	○	○	Benzene	X	X

○ Resistant

△ Partially Resistant

X Not Resistant

LIMITATIONS: Spiral pipes also have its limitations. Contact our authorized representatives to discuss its on site limitations.

HDPE SPIRAL FITTINGS



COUPLING



90° BEND



45° BEND



TEE



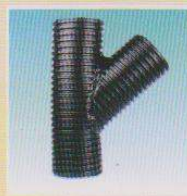
TEE REDUCER



CROSS TEE



CROSS TEE REDUCER



WYE



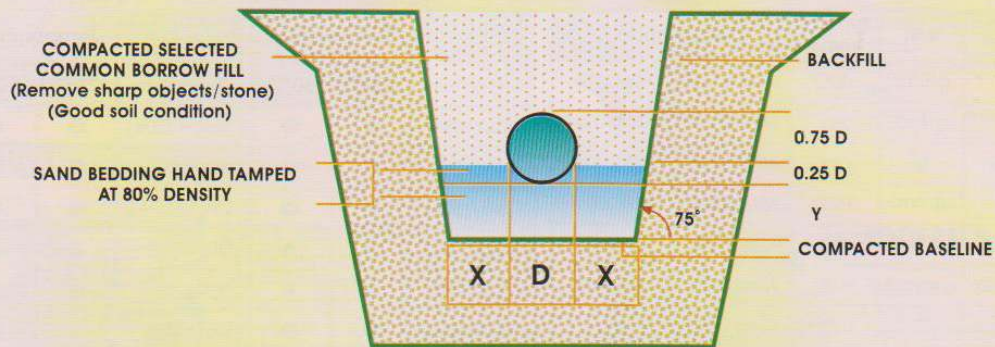
DOUBLE WYE REDUCER



END CAP

* Fabrication of other fittings also available upon request

RECOMMENDED TRENCHING



D (IN.)	X (MM.)	Y (MM.)	BACKFILL (mm)		D (IN.)	X (MM.)	Y (MM.)	BACKFILL (mm)	
			MAX.	MIN.				MAX.	MIN.
4	70	70	2000	300	16	150	150	2000	300
6	70	70	2000	300	18	150	150	2000	300
8	70	70	2000	300	20	150	150	2000	300
10	100	100	2000	300	24	150	150	2000	300
12	100	100	2000	300	36	150	150	2000	300
14	100	100	2000	300					

INSTALLATION



Lay the pipes along the trenchline.



Mark the full depth of insertion on the spigot.



Rotate clockwise the coupling into the spigot until reaching the checkmark.



Rotate the other pipe into the coupling.



Roll the assembled pipeline into the trench.



Align the pipeline properly before backfilling.



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