

Tough

ATLANTA HDPE SPIRAL





APPLICATION

- 1.) Storm drain and Under-drain under foot ways 7.)
- 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

- Home lots
- Drainage for sports and school grounds
- 9.) Drainage for Agriculture field
- 10.) Treatment site for anti-pollution Industries
- 11.) Storm drain in golf courese
- 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 coupling make pipe-to-pipe connections faster and easier.



Economical

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



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 Sprial 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.



Modern and Flexible

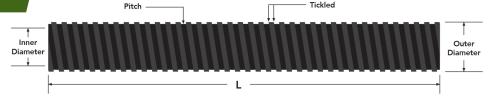
The Atlanta Spiral comes in standard 5.5m lenghts and because it is made of high-grade HDPE, it is sufficiently flexible to follow ground contours.



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



Jointing Method: Screw Type

Standard Length: 5.5 meters Color: Black

Nominal Diameter		Inner Diameter	Outer Diameter	Tickled	Pitch	Connect Size	Length
in	mm	mm	mm	mm	mm	mm	М
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



HDPE SPIRAL FITTINGS











COUPLING

90° BEND

45° BEND

TEE

TEE REDUCER











CROSS TEE

Dielectric Strength

CROSS TEE REDUCER

WYE

DOUBLE WYE REDUCER

END CAP

PHYSICAL PROPERTY

Property	Unit	Typical Value	Test Method	
Density	g/cm²	0.95	ASTM D1505	KSM3016
Tensile Strength	kg/cm²	250	ASTM D638	KSM3006
Ultimate Elongation	%	>200	ASTM D638	KSM3006
Tensile Modulus of Elasticity	kg/cm²	7500	ASTM D638	KSM3006
Flexural Modulus	kg/cm²	250	ASTM D780	KSM3008
Impact Strength (IZOD)	kg - cm/cm²	>12	ASTM D256	KSM3055
Brittleness Temperature	°C	-70	ASTM D148	-
Heat Distortion Temp.	°C	78	ASTM D648	-
Coefficient of Linear Thermal Expansion	°C	2 x 10 ⁴	ASTM D696	KSM3060
(23°C, hr) Water Absorption	mg	0.01	DIN 53472	KSM3027
Surface Resistivity	Ohm	>1013	DIN 53482	KSM30334
Volume Resistivity	Ohm x cm	10 ¹⁴	DIN 53482	-
Dielectric Constant	-	2.32	DIN 53484	KSM304
(Sheet/mm)	KC/cm	400	DIN 53481	_

APPLICABLE CHEMICAL SOLUTION

Chemical	Ter	np.
Name	23°C	60°C
HCL (10%)	•	•
HCL (35%)	•	•
H ₂ SO ₄ (50%)	•	•
H ₂ SO ₄ (70%)	•	_
H ₂ SO ₄ (90%)	A	×
CH ₃ COOH (25%)	•	•
CH ₃ COOH (50%)	_	×
H ₃ PO ₄ (50%)	•	•
H ₃ PO ₄ (90%)	•	×
HF (60%)	•	A
HF (100%)	•	•
Cr ₂ O ₃	•	•
Ca(OH) ₂	•	•

Chemical	Temp.		
Name	23°C	60°C	
NaOH (50%)	•	•	
Na ₂ CO ₃	•	•	
CH ₃ COOAg	•	•	
NH₄OH	•	•	
H ₂ O ₂	•	•	
Cl ₂ (100%)	×	×	
Sea Water	•	•	
CCL ₄	×	×	
CH₃OH	•	_	
Gasoline	A	_	
Milk	•	•	
Beer	•	•	
Benzene	×	×	

Legend: Resistant ▲ Partially Resistant ★ Not Resistant

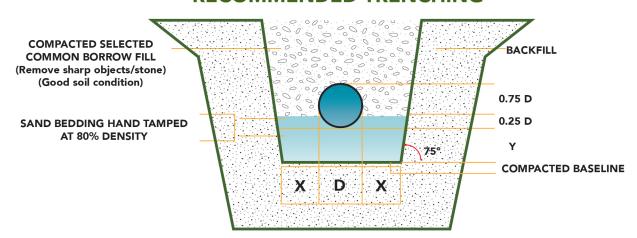
400

DIN 53481

KC/cm



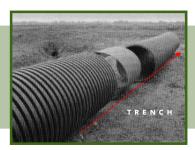
RECOMMENDED TRENCHING



V (mm)	V (mm)	BACKFILL (mm.)		
X (IIIII.)	1 (111111.)	MAX.	MIN.	
70	70	2000	300	
70	70	2000	300	
70	70	2000	300	
100	100	2000	300	
100	100	2000	300	
100	100	2000	300	
	70 70 100 100	70 70 70 70 70 70 100 100 100 100	X (mm.) Y (mm.) 70 70 2000 70 70 2000 70 70 2000 70 70 2000 100 100 2000 100 100 2000	

D (in)	X (mm.)	Y (mm.)	BACKFILL (mm.)		
D (in.)	Λ (IIIIII.)	1 (111111.)	MAX.	MIN.	
16	150	150	2000	300	
18	150	150	2000	300	
20	150	150	2000	300	
24	150	150	2000	300	
36	150	150	2000	300	

INSTALLATION



1.) Lay the pipes along the trenchline.



2.) Mark the full depth of insertion on the spigot.



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



4.) Rotate the other pipe into the coupling.



5.) Roll the assembled pipeline into the trench.



6.) Align the pipeline property before backfilling.



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