

DRIP LINES



THIN WALLED FLAT DRIPLINES

Advantages:

- Easy roll-up, storage and re-use season after season
- Flat drippers with the longest flowpath and in-built strainer filter
- Resistance to clogging due to extremely turbulent flow path - Hence long life
- Very good discharge uniformity throughout the dripline length
- Made from a special raw material mix for extended life of the driplines (not from regular LLDP as available in the market)
- Special driplines available for greenhouses



Technical specifications:

- Outer diameter = 12 mm, 16.5 mm & 20 mm
- Thickness = 0.2 mm, 0.25 mm, 0.3 mm, 0.4 mm, 0.5 mm, 0.7mm
- Discharge = 1.2lph, 2lph and 4lph.
- Spacing between the drippers= 20,30,40, 50 and 60cms.
- Life of the drip lines = 2yrs for 0.2mm, 3yrs for 0.3mm, 5yrs for 0.5mm and more than 5yrs for 0.7mm thickness drip lines.
- Requires filtration.

Applications:

- Irrigation of row crops, permanent crops, orchards and greenhouse applications.
- Crops: sugarcane, cotton, corn, banana, vegetables, etc .
- These thin walled drip lines are also used in irrigation kits which work on Ecoflo hand pump and Ecoflo treadle pump.

Hydraulic Data:

	1.2LPH	2LPH	4LPH
PRESSURE (BAR)	MEAN FLOW (LPH)		
0.5	0.9	1.5	2.9
0.8	1.3	2.1	3.9
1	1.4	2.4	4.4
1.5	1.8	3	5.6
2	2.1	3.5	6.5



MAXIMUM RUNNING IN METERS FOR 1.2 LPH								
DRIPPER SPACING (CMS)	30		40		50		60	
SLOPE	PIPE RUNNING IN METERS							
	16.5MM	20MM	16.5MM	20MM	16.5MM	20MM	16.5MM	20MM
1% DOWN HILL	118	166	147	206	177	247	121	168
0%	107	150	134	187	160	225	110	153
1% UP HILL	97	137	121	170	146	204	100	139
MAXIMUM RUNNING IN METERS FOR 2 LPH								
	16.5MM	20MM	16.5MM	20MM	16.5MM	20MM	16.5MM	20MM
1% DOWN HILL	103	144	128	179	153	214	117	163
0%	88	123	106	148	123	172	138	193
1% UP HILL	71	99	83	116	92	128	100	140
MAXIMUM RUNNING IN METERS FOR 4 LPH								
	16.5MM	20MM	16.5MM	20MM	16.5MM	20MM	16.5MM	20MM
1% DOWN HILL	64	89	80	112	94	131	108	151
0%	58	81	70	98	81	113	92	128
1% UP HILL	50	70	59	82	67	93	74	103

DRIP LINES

Comparison	Most Driplines in market	Our Flat thin-walled walled drip lines
Thickness	Available mostly in 6-12mils 0.15-0.3mm wall thickness	Available in 8mil,12mil and 20mil wall thicknesses
Dripper size	Small dripper with short length flow path	Bigger flat dripper with in-built filter and the longest possible flow path
Flow path dimensions	Small cross-section of flow path to achieve the discharge at lower length	Bigger cross-section of flow path due to longer length for the same discharge
Discharge uniformity	Discharge more likely to vary due to smaller size of dripper and flow path	Uniform discharge is more Likely during use
In-built filter in dripper	In-built filters if present in the drippers are much smaller in size which may get clogged	Dripper filters is significantly larger to avoid getting clogged
Drip line material characteristics	Most of the driplines available in the market are made in LLDPE base	Drip lines are made of a special mix of PE material which gives greater strength and durability than other drip lines. These are more tropicalized to work in hot-climatic conditions.
Expected life	Usually 1year life specified because of above reasons.	Minimum proven life of 2yrs for 8mil (0.2mm), 3years for 12mil (0.3mm) and 5years for 20mil (0.5mm)

CYLINDRICAL

Cylindrical dripline with a wall thickness of above 0.7mm are available for specific applications like orchards, vineyards, etc where lines are to be hung above the ground. These are also used in areas prone to physical damage. The characteristics of these cylindrical driplines are similar to the flat thin walled dripline given above.

Technical Features

- Diameter=16mm
- Discharge rates= 2 LPH and 4 LPH
- Emitter spacing is available starting from 20cm up to 100cm at any interval.

Applications:

- Irrigation of row crops, permanent crops, orchards, vineyards and greenhouse applications.

