



Landscape & Turf



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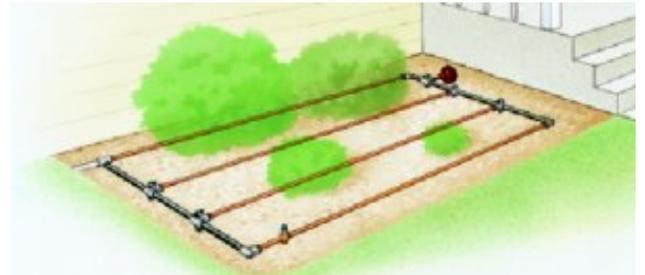
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Dripperline/Drippers: [Techline 17mm](#), [Techlite 17mm](#), [Techlite 8mm](#), [Fittings](#)

Drippers: [Techflow](#), [PC Jr](#), [BD&WP](#), [Dripper Fittings](#)

Techline On-Surface or Subsurface Drinkerline



Netafim Techline, the world's most advanced on-surface or subsurface dripperline irrigation system, has established a proven track record in every application that traditional sprinklers have been used.

An example of a typical Techline system configuration installed above ground and covered with a 4" - 6" layer of mulch. Note that the Supply and Exhaust Headers can be of polyethylene tubing, PVC pipe, or Techline Drinkerline or blank tubing.

[Please visit "About Techline" for more information on Techline Drinkerline.](#)

Applications

-  **Curved, Angular or Narrow Turf or Planting Areas**
-  **High Traffic/High Liability Areas**
-  **Areas Subject to Vandalism**
-  **High Wind Areas**
-  **Turf, Shrubs, Trees**
-  **Steep Slopes**
-  **Median Strips**
-  **Parking Lot Islands**
-  **Where sprinklers could cause a tripping hazard**
-  **At-grade Windows**
-  **Intiorscape Plantings**

Features/Benefits

-  **Unique flow path, continuous self-cleaning design resists clogging**
-  **Self-flushing/cleaning, elastomer diaphragm**

-  **Unique design with physical root barrier helps prevent root intrusion**
-  **Self contained, one-piece construction assures reliability, easy installation**
-  **12", 18", or 24" dripper spacing options**
-  **Blank tubing available**
-  **Flexible tubing adapts to any planting area shape**
-  **Maximum recommended system pressure: 45 PSI**
-  **UV resistant**

Specifications

-  **Dripper Discharge: 0.4, 0.6 or 0.9 GPH**
-  **Pressure Compensation Range: 7 to 70 PSI (stainless steel clamps recommended above 45 PSI)**
-  **Maximum System Pressure: 45 PSI**
-  **Techline Diameter: 0.67" OD: 0.57" ID**
-  **100', 250', 1000' coil lengths**

Techline Dripperline Model Information

flow rate	dripper spacing	length	model#
0.4 GPH	12"	1000'	TLDL4-1210
		250'	TLDL4-12025
		100'	TLDL4-1201
0.4 GPH	18"	1000'	TLDL4-1810
		250'	TLDL4-18025
		100'	TLDL4-1801
0.6 GPH	12"	1000'	TLDL6-1210
		250'	TLDL6-12025
		100'	TLDL6-1201
0.6 GPH	18"	1000'	TLDL6-1810
		250'	TLDL6-18025
		100'	TLDL6-1801
0.6 GPH	24"	1000'	TLDL6-2410
		250'	TLDL6-24025
		100'	TLDL6-2401
0.9 GPH	12"	1000'	TLDL9-1210
		250'	TLDL9-12025
		100'	TLDL9-1201
0.9 GPH	18"	1000'	TLDL9-1810
		250'	TLDL9-18025
		100'	TLDL9-1801
0.9 GPH	24"	1000'	TLDL9-2410
		250'	TLDL9-24025
		100'	TLDL9-2401
blank tubing	n.a.	1000'	TLDL010
		250'	TLDL0025
		100'	TLDL001



General Guidelines for Techline

The table shows specifications for Turf Applications as well as for Groundcover & Shrubs.

	Turf Applications			Groundcover & Shrubs		
	Sand	Loam	Clay	Sand	Loam	Clay
Dripper Flow	.9 GPH	.6 GPH	.4 GPH	.9 GPH	.6 GPH	.4 GPH
Dripper Spacing	12"	12"	18"	12"	18"	18"
Techline Spacing	12" - 16"	18" - 22"	18" - 22"	16" - 20"	18" - 24"	18" - 24"
Burial Depth	On-surface, or bury evenly throughout the zone to a maximum of 6"					
Application Rate	1.44 - 1.08 in./hr.	.64 - .48 in./hr.	.29 - .23 in./hr.	1.08 - .87 in./hr.	.42 - .35 in./hr.	.29 - .21 in./hr.
Time to Apply 1/4" of Water	10 - 14 min.	23 - 31 min.	52 - 65 min.	14 - 17 min.	36 - 43 min.	52 - 71 min.

Minimum Spacing Recommendations:

Following these spacing guidelines, dripper flow selection can be increased if desired by the designer.



Design Formulas

These formulas are used to design your Techline Irrigation System. Please also visit our [Techline Virtual Calculator](#) which will automatically run the calculations for you given the correct input.

Estimated Total Length of Dripperline =	$\frac{\text{Irrigated Area (square feet)} \times 12}{\text{Minimum Dripperline Row Spacing (inches) From General Guidelines Chart}}$
Application Rate (Inches per Hour) =	$\frac{231.1 \times \text{Dripper Flow (GPH)}}{\text{Dripper Spacing (inches)} \times \text{Dripperline Spacing (Inches)}}$
Number of Drippers =	$\frac{\text{Total Dripperline Length (feet)} \times 12}{\text{Dripper Spacing (inches)}}$
Flow per Zone =	$\frac{\text{Number of Drippers} \times \text{Flow per Dripper (GPH)}}{60}$

Estimated Total Zone Flow =

Step 1: Irrigated Area (square feet) x 144) divided by
(Dripper Spacing (inches) x Techline Spacing (inches)

Step 2: Multiply result times Dripper Flow (GPH)

Step 3: Divide the result by 60



Techline Tables

Techline Flow per 100 Feet

Dripper Spacing	Dripper Flow					
	0.4		0.6		0.9	
	GPH	GPM	GPH	GPM	GPH	GPM
12"	40	0.67	61	1.02	92	1.53
18"	26.67	0.44	41	0.68	61	1.02
24"			31	0.51	46	0.77

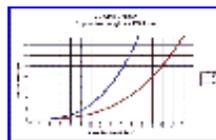
Techline Maximum Length of Laterals (feet)

Dripper Spacing	12"			18"			24"	
	0.4	0.6	0.9	0.4	0.6	0.9	0.6	0.9
Dripper Flow Rate (GPH)								
15 PSI	292'	233'	175'	410'	322'	247'	405'	308'
25 PSI	397'	312'	238'	558'	438'	335'	553'	423'
35 PSI	486'	365'	279'	656'	514'	394'	649'	497'
45 PSI	520'	407'	311'	732'	574'	439'	725'	555'

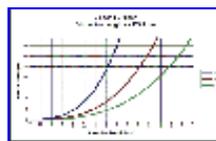


Techline Graphs

Click on the Image to Make it Larger



[The PSI Loss vs. Dripperline Length 0.4 GPH](#)



[The PSI Loss vs. Dripperline Length 0.6 GPH](#)