



P₁[®] **THIN WALL LIGHT DRIPLINE**

- Premium Light Dripline with Seamless Construction Ideal for Row Crops
- Manufactured with Engineering Grade Polyethylene Resins for High Strength
- Injection Molded Flat Drippers Offer a High Degree of Plug Resistance
- Highly Uniform Water Distribution with a Cv of <2.5%
- Integrated Inlet Filter for Additional Plugging Protection
- Outlet Flap Reduces Soil Ingestion and Root Intrusion in Subsurface Applications

irritec[®]
don't wait for rain[®]

CHARACTERISTICS AND ADVANTAGES:

- Two other colored stripes identify the dripline side with the exit holes ensuring correct installation.
- Target markets include row crop (surface and subsurface), open field and greenhouse.
- Available in a wide range of wall thicknesses and flow rates which are ideal for multi-seasonal and permanent use.
- Excellent uniformity combined with low flow rates and large diameters allows very long laterals.
- The integrated inlet filter provides plugging protection and its position, facing the center of the tubing, allows water inflow in the labyrinth away from stagnation areas.
- Flap design makes it suitable for subsurface installations - opens under pressure allowing water flow and closes on shut down to reduce soil ingestion and root intrusion.
- UV resistant and resistant to common fertilizers.
- Recommended filtration: 150 Mesh for .13 GPH and .17 GPH
120 Mesh for .25 GPH, .33 GPH and .46 GPH

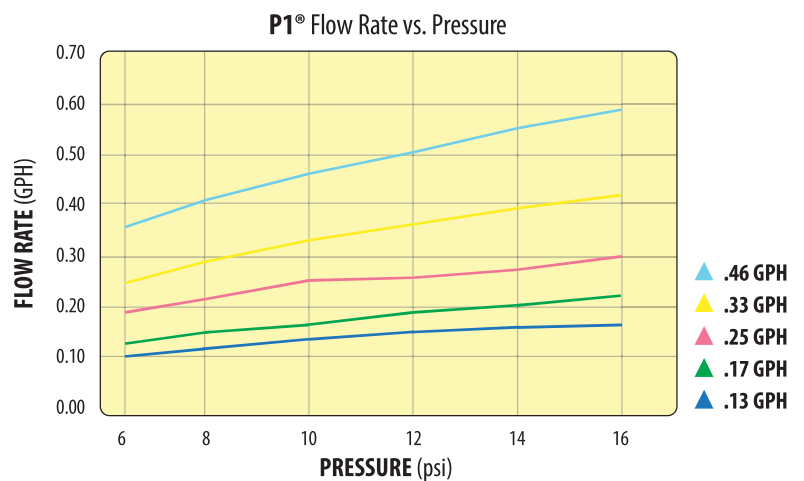
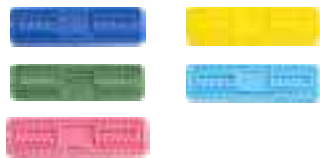


Applications:



TECHNICAL INFORMATION:

Drippers	
Nominal Flow Rate @ 10 psi	
Dripper Color	Flow Rate
Blue	.13 GPH
Green	.17 GPH
Pink	.25 GPH
Yellow	.33 GPH
Light Blue	.46 GPH



P1® THIN WALL LIGHT DRIPLINE



ORDERING INFORMATION: Substitute **XX** in the Part Number for the dripper spacing (must be 2 digits; 8" = 08)

To Calculate Total Pallet Weight:
Reels Per Pallet x Reel Weight + 30 lbs. = Pallet Weight

16mm (5/8") .635" I.D.



6 mil				
16 Reels per Pallet				
Part Number	Flow Rate	Dripper Spacing	Reel Length	Reel Weight
P1-50613-XXF-9514	.13 GPH	Below 8"	9,514'	64 lbs.
P1-50617-XXF-9514	.17 GPH			
P1-50625-XXF-9514	.25 GPH			
P1-50633-XXF-9514	.33 GPH			
P1-50646-XXF-9514	.46 GPH			
P1-50613-XXF-10499	.13 GPH	8" to 10"	10,499'	66 lbs.
P1-50617-XXF-10499	.17 GPH			
P1-50625-XXF-10499	.25 GPH			
P1-50633-XXF-10499	.33 GPH			
P1-50646-XXF-10499	.46 GPH			
P1-50613-XXF-11483	.13 GPH	11" and above	11,483'	68 lbs.
P1-50617-XXF-11483	.17 GPH			
P1-50625-XXF-11483	.25 GPH			
P1-50633-XXF-11483	.33 GPH			
P1-50646-XXF-11483	.46 GPH			

8 mil			
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To Calculate Total Pallet Weight:
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16mm (5/8") .635" I.D.

15 mil				
16 Reels per Pallet				
Part Number	Flow Rate	Dripper Spacing	Reel Length	Reel Weight
P1-51513-XXF-3600	.13 GPH	Below 8"	3,600'	53 lbs.
P1-51517-XXF-3600	.17 GPH			
P1-51525-XXF-3600	.25 GPH			
P1-51533-XXF-3600	.33 GPH			
P1-51546-XXF-3600	.46 GPH			
P1-51513-XXF-4100	.13 GPH	8" and above	4,100'	56 lbs.
P1-51517-XXF-4100	.17 GPH			
P1-51525-XXF-4100	.25 GPH			
P1-51533-XXF-4100	.33 GPH			
P1-51546-XXF-4100	.46 GPH			



22mm (7/8") .875" I.D.

6 mil				
16 Reels per Pallet				
Part Number	Flow Rate	Dripper Spacing	Reel Length	Reel Weight
P1-70613-XXF-7500	.13 GPH	10" and below	7,500'	62 lbs.
P1-70617-XXF-7500	.17 GPH			
P1-70625-XXF-7500	.25 GPH			
P1-70633-XXF-7500	.33 GPH			
P1-70646-XXF-7500	.46 GPH			
P1-70613-XXF-8000	.13 GPH	11" and above	8,000'	64 lbs.*
P1-70617-XXF-8000	.17 GPH			
P1-70625-XXF-8000	.25 GPH			
P1-70633-XXF-8000	.33 GPH			
P1-70646-XXF-8000	.46 GPH			

* 11-12" dripper spacing reel weight 63 lbs.

10 mil				
16 Reels per Pallet				
Part Number	Flow Rate	Dripper Spacing	Reel Length	Reel Weight
P1-71013-XXF-5000	.13 GPH	10" and below	5,000'	71 lbs.
P1-71017-XXF-5000	.17 GPH			
P1-71025-XXF-5000	.25 GPH			
P1-71033-XXF-5000	.33 GPH			
P1-71046-XXF-5000	.46 GPH			
P1-71013-XXF-5500	.13 GPH	11" and above	5,500'	73 lbs.
P1-71017-XXF-5500	.17 GPH			
P1-71025-XXF-5500	.25 GPH			
P1-71033-XXF-5500	.33 GPH			
P1-71046-XXF-5500	.46 GPH			

8 mil				
16 Reels per Pallet				
Part Number	Flow Rate	Dripper Spacing	Reel Length	Reel Weight
P1-70813-XXF-6000	.13 GPH	All	6,000'	64 lbs.
P1-70817-XXF-6000	.17 GPH			
P1-70825-XXF-6000	.25 GPH			
P1-70833-XXF-6000	.33 GPH			
P1-70846-XXF-6000	.46 GPH			

13 mil				
16 Reels per Pallet				
Part Number	Flow Rate	Dripper Spacing	Reel Length	Reel Weight
P1-71313-XXF-3600	.13 GPH	10" and below	3,600'	64 lbs.
P1-71317-XXF-3600	.17 GPH			
P1-71325-XXF-3600	.25 GPH			
P1-71333-XXF-3600	.33 GPH			
P1-71346-XXF-3600	.46 GPH			
P1-71313-XXF-4000	.13 GPH	11" and above	4,000'	66 lbs.
P1-71317-XXF-4000	.17 GPH			
P1-71325-XXF-4000	.25 GPH			
P1-71333-XXF-4000	.33 GPH			
P1-71346-XXF-4000	.46 GPH			

15 mil				
16 Reels per Pallet				
Part Number	Flow Rate	Dripper Spacing	Reel Length	Reel Weight
P1-71513-XXF-3300	.13 GPH	All	3,300'	61 lbs.
P1-71517-XXF-3300	.17 GPH			
P1-71525-XXF-3300	.25 GPH			
P1-71533-XXF-3300	.33 GPH			
P1-71546-XXF-3300	.46 GPH			

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To Calculate Total Pallet Weight:
Reels Per Pallet x Reel Weight + 30 lbs. = Pallet Weight

25mm (1") .990" I.D.



10 mil		
4,000' Reel	16 Reels per Pallet	
Part Number	Flow Rate	Reel Weight
P1-91013-XXF-4000	.13 GPH	58 lbs.
P1-91017-XXF-4000	.17 GPH	
P1-91025-XXF-4000	.25 GPH	
P1-91033-XXF-4000	.33 GPH	
P1-91046-XXF-4000	.46 GPH	

13 mil		
3,000' Reel	16 Reels per Pallet	
Part Number	Flow Rate	Reel Weight
P1-91313-XXF-3000	.13 GPH	56 lbs.
P1-91317-XXF-3000	.17 GPH	
P1-91325-XXF-3000	.25 GPH	
P1-91333-XXF-3000	.33 GPH	
P1-91346-XXF-3000	.46 GPH	

15 mil		
2,750' Reel	16 Reels per Pallet	
Part Number	Flow Rate	Reel Weight
P1-91513-XXF-2750	.13 GPH	56 lbs.
P1-91517-XXF-2750	.17 GPH	
P1-91525-XXF-2750	.25 GPH	
P1-91533-XXF-2750	.33 GPH	
P1-91546-XXF-2750	.46 GPH	

29mm (1 1/8") 1.125" I.D.

13 mil		
2,800' Reel	16 Reels per Pallet	
Part Number	Flow Rate	Reel Weight
P1-111313-XXF-2800	.13 GPH	55 lbs.
P1-111317-XXF-2800	.17 GPH	
P1-111325-XXF-2800	.25 GPH	
P1-111333-XXF-2800	.33 GPH	
P1-111346-XXF-2800	.46 GPH	

15 mil		
2,575' Reel	16 Reels per Pallet	
Part Number	Flow Rate	Reel Weight
P1-111513-XXF-2575	.13 GPH	62 lbs.
P1-111517-XXF-2575	.17 GPH	
P1-111525-XXF-2575	.25 GPH	
P1-111533-XXF-2575	.33 GPH	
P1-111546-XXF-2575	.46 GPH	



ORDERING INFORMATION:

To Calculate Total Pallet Weight:
Reels Per Pallet x Reel Weight + 30 lbs. = Pallet Weight

16mm (5/8") .635" I.D. - Short Reels

8 mil			
With Flap Outlet 1,000' Reel			
Part Number	Flow Rate	Dripper Spacing	Reel Weight
P1-50817-08F-1000	.17 GPH	8"	14.5 lbs.
P1-50825-08F-1000	.25 GPH	8"	14.5 lbs.
P1-50825-12F-1000	.25 GPH	12"	14.5 lbs.
P1-50833-06F-1000	.33 GPH	6"	14.5 lbs.
P1-50833-08F-1000	.33 GPH	8"	14.5 lbs.
P1-50833-12F-1000	.33 GPH	12"	14.5 lbs.



Short Reel Specifications			
Size	Reel Length	Reel Diameter	Reel Height
8 mil	1,000'	15½"	8"
15 mil	500'	12"	8"
15 mil	1,000'	15½"	8"

15 mil			
Without Flap Outlet 500' Reel			
Part Number	Flow Rate	Dripper Spacing	Reel Weight
P1-51525-06-0500	.25 GPH	6"	7.25 lbs.
P1-51525-08-0500	.25 GPH	8"	7.25 lbs.
P1-51525-12-0500	.25 GPH	12"	7.25 lbs.
P1-51533-06-0500	.33 GPH	6"	7.25 lbs.
P1-51533-08-0500	.33 GPH	8"	7.25 lbs.
P1-51533-12-0500	.33 GPH	12"	7.25 lbs.

15 mil			
Without Flap Outlet 1,000' Reel			
Part Number	Flow Rate	Dripper Spacing	Reel Weight
P1-51525-06-1000	.25 GPH	6"	14.5 lbs.
P1-51525-08-1000	.25 GPH	8"	14.5 lbs.
P1-51525-12-1000	.25 GPH	12"	14.5 lbs.
P1-51533-06-1000	.33 GPH	6"	14.5 lbs.
P1-51533-08-1000	.33 GPH	8"	14.5 lbs.
P1-51533-12-1000	.33 GPH	12"	14.5 lbs.



LENGTH OF RUN CHARTS:

Length of Run Charts information based on single lateral uniformities.

For further details, contact an Irrigation Design Professional.

$$EU = 100 (1 - 1.27 C_v / \sqrt{n}) Q_{min} / Q_{med}$$

C_v = coefficient of variation

n = number of drippers

Q_{min} = minimum flow

Q_{max} = median flow



16mm (5/8")								
Dripper Flow Rate	EU	Dripper Spacing						
		8"	10"	12"	14"	16"	20"	24"
.13 GPH	90%	689'	770'	892'	-	1,070'	1,234'	1,388'
	85%	853'	950'	1,102'	-	1,326'	1,526'	1,716'
.17 GPH	90%	564'	678'	732'	800'	879'	1,014'	1,135'
	85%	702'	845'	906'	1,012'	1,089'	1,257'	1,411'
.25 GPH	90%	459'	513'	594'	645'	715'	824'	925'
	85%	568'	637'	735'	780'	883'	1,020'	1,145'
.33 GPH	90%	384'	431'	495'	-	594'	686'	768'
	85%	472'	535'	610'	-	735'	846'	951'
.46 GPH	90%	315'	349'	407'	-	489'	564'	633'
	85%	390'	431'	505'	-	607'	699'	784'

22mm (7/8")								
Dripper Flow Rate	EU	Dripper Spacing						
		8"	10"	12"	14"	16"	20"	24"
.13 GPH	90%	1,207'	1,324'	1,565'	-	1,880'	2,165'	2,435'
	85%	1,496'	1,635'	1,936'	-	2,326'	2,681'	3,012'
.17 GPH	90%	991'	1,138'	1,283'	1,425'	1,542'	1,778'	1,995'
	85%	1,230'	1,400'	1,591'	1,760'	1,910'	2,202'	2,474'
.25 GPH	90%	801'	880'	1,037'	1,120'	1,243'	1,434'	1,611'
	85%	991'	1,088'	1,283'	1,375'	1,539'	1,775'	1,995'
.33 GPH	90%	666'	738'	863'	-	1,034'	1,191'	1,339'
	85%	824'	912'	1,066'	-	1,280'	1,473'	1,657'
.46 GPH	90%	548'	595'	712'	-	853'	984'	1,106'
	85%	679'	737'	879'	-	1,056'	1,217'	1,365'

25mm (1")								
Dripper Flow Rate	EU	Dripper Spacing						
		8"	10"	12"	14"	16"	20"	24"
.13 GPH	90%	1,493'	1,632'	1,933'	-	2,323'	2,677'	3,005'
	85%	1,847'	2,040'	2,392'	-	2,871'	3,311'	3,717'
.17 GPH	90%	1,224'	1,400'	1,585'	1,760'	1,903'	2,195'	2,464'
	85%	1,516'	1,730'	1,965'	2,185'	2,359'	2,720'	3,055'
.25 GPH	90%	997'	1,078'	1,289'	1,400'	1,549'	1,785'	2,005'
	85%	1,234'	1,345'	1,595'	1,700'	1,916'	2,208'	2,480'
.33 GPH	90%	827'	912'	1,073'	-	1,286'	1,483'	1,667'
	85%	1,024'	1,136'	1,326'	-	1,591'	1,834'	2,060'
.46 GPH	90%	682'	737'	886'	-	1,063'	1,224'	1,375'
	85%	843'	912'	1,093'	-	1,312'	1,513'	1,700'

29mm (1 1/8")								
Dripper Flow Rate	EU	Dripper Spacing						
		8"	10"	12"	14"	16"	20"	24"
.13 GPH	90%	1,857'	2,031'	2,405'	-	2,887'	3,330'	3,740'
	85%	2,297'	2,540'	2,976'	-	3,573'	4,121'	4,626'
.17 GPH	90%	1,526'	1,749'	1,972'	2,180'	2,369'	2,733'	3,068'
	85%	1,890'	2,150'	2,448'	2,700'	2,936'	3,386'	3,803'
.25 GPH	90%	1,240'	1,366'	1,604'	1,800'	1,929'	2,531'	2,497'
	85%	1,532'	1,674'	1,985'	2,200'	2,352'	2,749'	3,087'
.33 GPH	90%	1,030'	1,138'	1,335'	-	1,601'	1,847'	2,074'
	85%	1,273'	1,400'	1,650'	-	1,982'	2,284'	2,566'
.46 GPH	90%	850'	920'	1,099'	-	1,322'	1,522'	1,713'
	85%	1,050'	1,138'	1,362'	-	1,634'	1,883'	2,116'

IRRITEC FITTINGS:

Our fittings are the benchmark by which all other fittings are judged. Perma-Loc fittings have a modular design and are unmatched in performance, durability and selection - while providing easy and speedy assembly. A small selection of fittings for P1® Thin Wall Light Driplines is listed below. Refer to the Irritec Price List for additional fittings, ordering information and pricing.



Coupling



Elbow



Tee



Tape x Barb



Tape x Hose Adapter



Tape x LayFlat Connector



Tape Y



Flush Valve



Shut-Off Valve



End Plug with Ring

IRRITEC SYSTEM COMPONENTS:

Irritec offers the following system components - Polyethylene (PE) tubing, Filters, Valves, Air Vents, and Pressure Regulators. Refer to the Irritec Price List for additional components, ordering information and pricing.



Polyethylene (PE) tubing is manufactured with state of the art extrusion equipment for high quality and durability.



Filters offer the best protection for every irrigation system. Choose from sand media, stainless steel screen and disc filters.



Valves include Ball, Pressure Relief and Shut Off all of which are manufactured from high quality materials and offer superior reliability.



Air Vents provide air relief for maximum system protection. **Pressure Regulators** are known for accuracy and reliable performance.