

# LIN

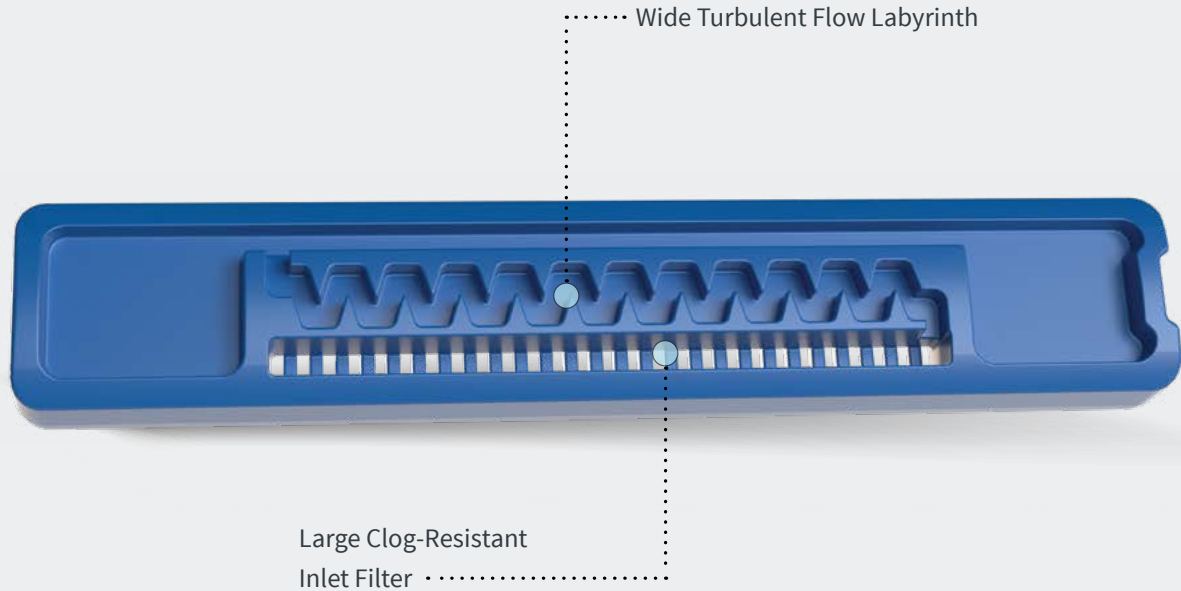
Light Flat Integral  
Dripper



✉ [Info@Metzerplas.com](mailto:Info@Metzerplas.com) ☎ +972-4-6387001 🌐 [metzer-group.com](http://metzer-group.com)

# LIN | Light Flat Integral Dripper

## Structure & Parts



Dripper flow rates | 0.8 / 1.2 / 1.6 / 2.0 / 4.0 l/h  
Dripline diameters | 12 / 16 / 17 / 20 / 22 / 25 mm  
Dripline wall thickness | 0.15 - 1.0 mm  
Recommended filtration | 120 mesh / 130 micron



## LIN Features

- Light flat integral dripper
- Large clog-resistant inlet filter
- Short and wide labyrinth with turbulent flow pattern - prevents particle settling

RootGuard® configuration is available for extra protection against root intrusion in SDI systems.

# LIN | Drippers Data

## LIN 12

Dripline max. lateral length (m) | I.D. 11.15 mm, W.T. 0.3 mm, nominal diameter 12 mm, slope = 0%  
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.8	62	83	101	117	132	153	186
1.2	49	65	79	92	103	120	146
1.6	40	53	65	76	85	99	120
2	35	46	56	66	74	86	104
4	22	29	36	42	47	54	66

## LIN 16

Dripline max. lateral length (m) | I.D. 15.8 mm, W.T. 0.3 mm, nominal diameter 16 mm, slope = 0%  
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.8	118	156	189	219	247	286	345
1.2	94	120	146	169	190	221	266
1.6	74	99	120	139	157	182	220
2	64	85	104	121	136	158	191
4	41	54	66	77	87	100	121

## LIN 17

Dripline max. lateral length (m) | I.D. 15.8 mm, W.T. 0.3 mm, nominal diameter 17 mm, slope = 0%  
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.8	122	161	196	227	256	297	359
1.2	84	123	150	175	197	228	276
1.6	74	98	119	139	157	181	219
2	64	85	103	120	136	157	190
4	41	54	66	76	86	100	121

# LIN | Drippers Data

## LIN 20

Dripline max. lateral length (m) | I.D. 17.4 mm, W.T. 0.6 mm, nominal diameter 20 mm, slope = 0%  
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.8	137	182	222	257	291	336	406
1.2	118	140	171	198	224	259	314
1.6	86	115	140	163	184	214	259
2	75	100	122	142	160	186	224
4	48	63	78	90	102	118	143

## LIN 22

Dripline max. lateral length (m) | I.D. 21.2 mm, W.T. 0.3 mm, nominal diameter 22 mm, slope = 0%  
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.8	221	274	328	377	423	486	583
1.2	172	211	253	291	326	375	450
1.6	136	174	208	240	269	309	317
2	117	151	181	208	233	268	322
4	75	96	115	132	148	171	205

## LIN 25

Dripline max. lateral length (m) | I.D. 24.7 mm, W.T. 0.4 mm, nominal diameter 25 mm, slope = 0%  
Inlet pressure - 1.2 bar

Nominal Flow Rate (l/h)	Spacing between Drippers (cm)						
	20	30	40	50	60	75	100
0.8	255	335	424	489	548	631	757
1.2	192	256	308	351	399	465	564
1.6	173	223	268	308	346	399	478
2	151	195	234	270	303	348	418
4	96	124	149	172	192	222	267

\* Customized spacing between drippers is available upon request.

# LIN | Drippers Data



## Technical Data

Drip Line Nominal Diameter	Inside Diameter (mm)	Wall Thickness (mm)	Minimum Working Pressure (bar)	Maximum Working Pressure (bar)	Dripper Kd
Lin 12 mm	11.15	0.3 - 0.4	0.5	2.0	0.3
Lin 16 mm	15.8	0.15 - 0.4	0.5	1.0 - 2.0	0.18
Lin 16 mm	15.2	0.5 - 0.6	0.5	2.5	0.20
Lin 16 mm	13.8	0.8 - 0.9	0.5	3.0	0.25
Lin 17 mm	16.15	0.3 - 0.4	0.5	1.6 - 2.0	0.19
Lin 17 mm	15.8	0.6	0.5	2.5	0.20
Lin 17 mm	15	0.9	0.5	3.0	0.22
Lin 20 mm	17.4	0.9	0.5	3.0	0.18
Lin 22 mm	21.2	0.3 - 0.6	0.5	1.5 - 2.5	0.05
Lin 22 mm	20.95	0.9 - 1.0	0.5	3.0	0.08
Lin 25 mm	24.7	0.4	0.5	1.8	0.05

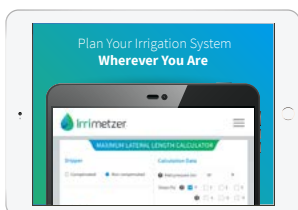
Note: max. pressure in the lateral is according to the diameter and W.T. specification.

### Table for calculating flow rates vs. pressure

Based on exponential regression formula:  
 $q = a \cdot P^b$

- q (l/h) - dripper flow rate
- a (unitless) - coefficient (empirical)
- P (m) - pressure
- b (unitless) - exponent (empirical)

Dripper	a - coefficient	b - exponent
Lin 0.8 l/h	0.2757	0.4643
Lin 1.2 l/h	0.4052	0.4714
Lin 1.6 l/h	0.5326	0.4775
Lin 2.0 l/h	0.6632	0.4794
Lin 4.0 l/h	1.0499	0.5716



For more details, please visit our cutting-edge application for irrigation system design:

[irrimetzer.metzer-group.com](http://irrimetzer.metzer-group.com)



# LIN | Transport Packaging

## Narrow Drum A 18.5 cm H \* 57 cm O.D. (up to 0.3 mm W.T.)



PALLET	CONTAINER
<b>20ft container</b> 4 drums per layer * 6 layers + 4 drums per layer * 5 layers Total: 44 drums  <b>40ft HC container</b> 4 drums per layer * 6 layers + 4 drums per layer * 6 layers Total: 48 drums	<b>20ft container</b> 20 pallets Total: 440 drums  <b>40ft HC container</b> 40 pallets Total: 960 drums

## Narrow Drum B 22.5 cm H \* 57 cm O.D. (up to 0.4 mm W.T.)



PALLET	CONTAINER
<b>20ft container</b> 4 drums per layer * 9 layers. Total: 36 drums  <b>40ft HC container</b> 4 drums per layer * 10 layers. Total: 40 drums	<b>20ft container</b> 10 pallets. Total: 360 drums  <b>40ft HC container</b> 22 pallets. Total: 880 drums

## Medium Drum 28.5 cm H \* 57 cm O.D. (for 0.6 - 0.9 mm W.T.)



PALLET	CONTAINER
<b>40ft HC Container</b> 4 drums per layer * 4 layers + 4 drums per layer * 4 layers Total: 32 drums	<b>40ft HC Container</b> 40 pallets + 24 loose drums Total: 664 drums

## Wide Drum 33.5 cm H \* 57 cm O.D. (for 0.6 - 1.0 mm W.T.)



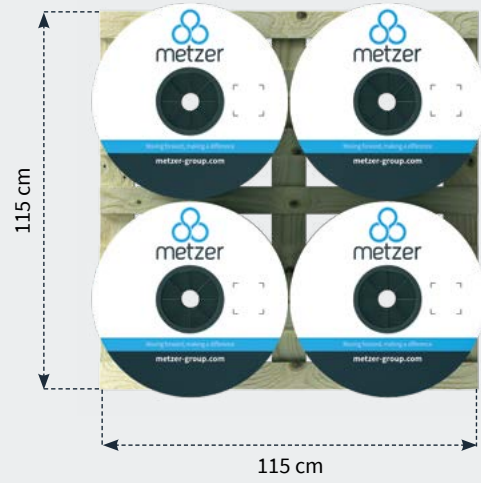
PALLET	CONTAINER
<b>20ft container</b> 4 drums per layer * 6 layers. Total: 24 drums  <b>40ft HC container</b> 4 drums per layer * 6 layers. Total: 24 drums	<b>20ft container</b> 10 pallets. Total: 240 drums  <b>40ft HC container</b> 20 pallets + 20 loose drums. Total: 500 drums

Dripline	Wall Thickness (mil/mm)	Length (m)		Drum Average Weight (kg)*	
		Up to 20 cm	Above 20 cm	Up to 20 cm	Above 20 cm
12 mm	16 / 0.4		1000 Narrow B		16
	6 / 0.15	2000 Narrow A	2500 Narrow A	19	24
17 mm	8 / 0.2	1800 Narrow A	2200 Narrow A	22	26
	10 / 0.25	1600 Narrow A	2000 Narrow A	22	28
	16 / 0.4		1000 Narrow B		22
	24 / 0.6		700 Medium		22
	36 / 0.9		400 Medium		17

Dripline	Wall Thickness (mil/mm)	Length (m)		Drum Average Weight (kg)*	
		Up to 20 cm	Above 20 cm	Up to 20 cm	Above 20 cm
20 mm	8 / 0.2		1500 Narrow B		22
	10 / 0.25		1200 Narrow B		21
	12 / 0.3		1000 Narrow B		21
	16 / 0.4		800 Narrow B		22

\* According to dripper spacing.

### Narrow Drum A (up to 0.3 mm W.T.)



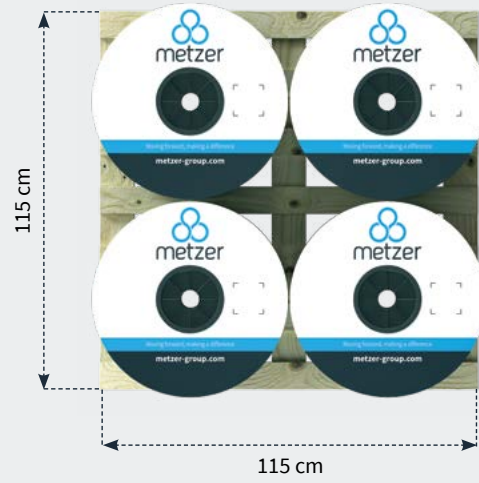
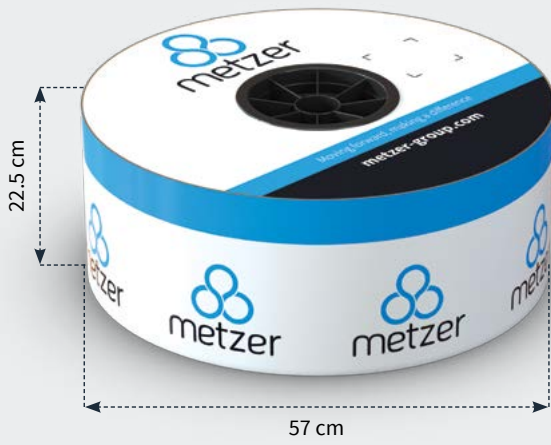
### 20ft Container



### 40ft HC Container



### Narrow Drum B (up to 0.4 mm W.T.)



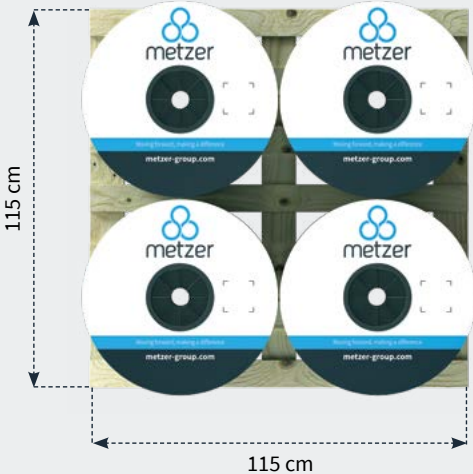
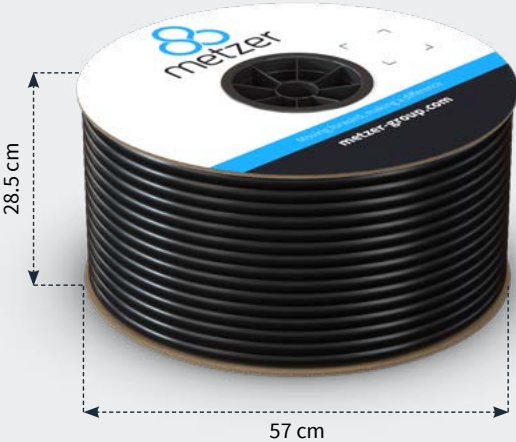
### 20ft Container



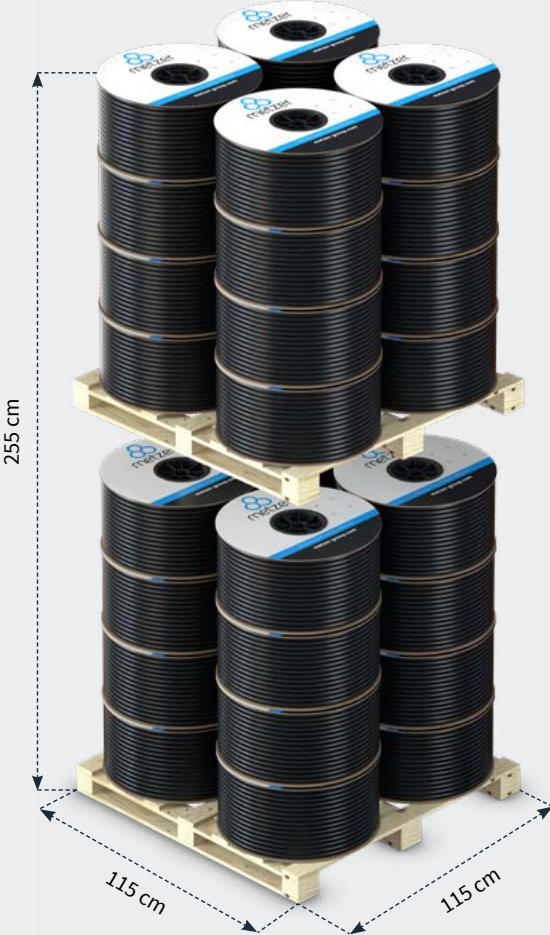
### 40ft HC Container



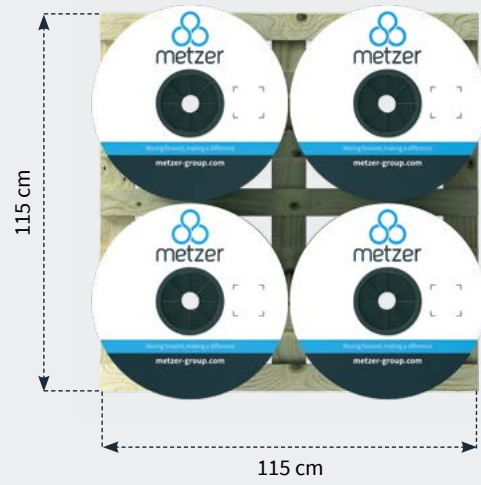
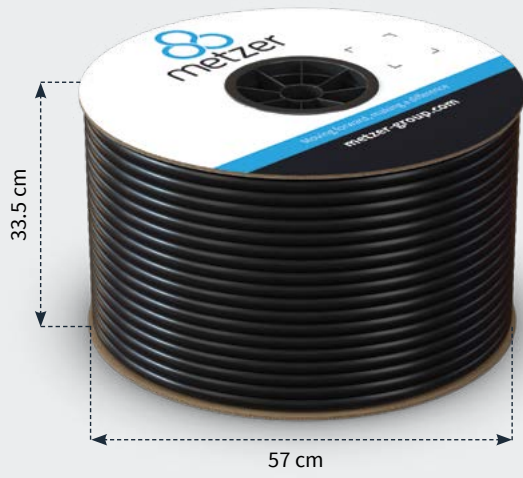
Medium Drum (for 0.6 - 0.9 mm W.T.)



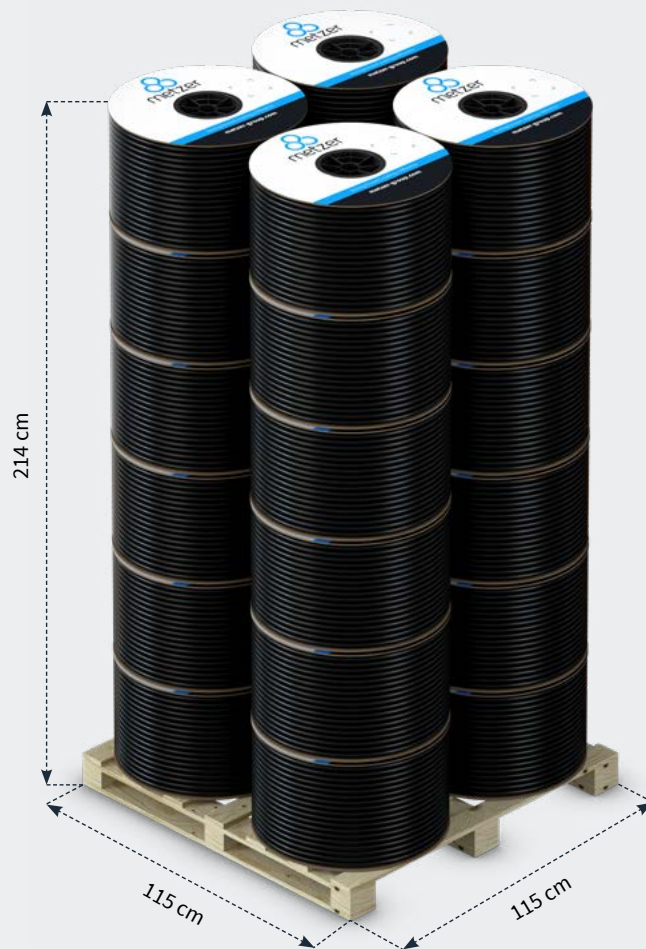
40ft HC Container



**Wide Drum** (for 0.6 - 1.0 mm W.T.)



**40ft HC Container**



# LIN | Transport Packaging

## Extra Narrow Drum 22.5 cm H \* 45 cm O.D. (up to 0.3 mm W.T.)



### PALLET

#### 20ft container

5 drums per layer \* 9 layers  
Total: 45 drums

#### 40ft HC container

5 drums per layer \* 10 layers  
Total: 50 drums

### CONTAINER

#### 20ft container

10 pallets  
Total: 450 drums

#### 40ft HC container

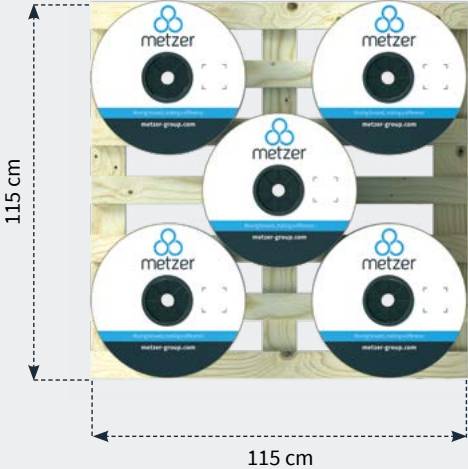
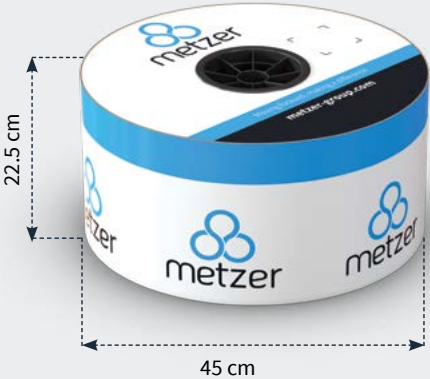
20 pallets  
Total: 1000 drums

Dripline	Wall Thickness (mil/mm)	Length (m)		Drum Average Weight (kg)*	
		Up to 20 cm	Above 20 cm	Up to 20 cm	Above 20 cm
16 mm	0.15 / 6	1000	1500	10	15
	0.20 / 8	1000	1000		12

\* According to dripper spacing.



**Extra Narrow Drum (up to 0.3 mm W.T.)**



**40ft HC Container**

