

LINEAR®

FLAT PC AS/ND

The most advanced solution in micro-irrigation

Product description

Linear Flat Pc® is a high density polyethylene dripline with pressure-compensating flow flat dripper available in no-drain and anti-siphon version.

The emitter compensation mechanism ensures a constant flow rate at each drip point allowing for perfect emission uniformity and the maximum in terms of crop yields.

The in-line drippers with pressure-compensating membrane are the most technologically advanced solution in the field of precision irrigation.

Product range

DIAMETER Ø - mm	16	20	23	25
THICKNESS mil	35 - 40 45	40 - 45 48	45 - 48	45 - 48
THICKNESS mm	0.87 - 1.0 1.13	1.0 - 1.13 1.20	1.13 - 1.20	1.13 - 1.20
FLOW RATE* l/h 3,5bar	1,1 - 1,5 - 2,4 - 3,8			
SPACING cm	15 - 20 - 25 - 15 - 20 - 23 - 25 - 30 - 33 - 40 - 50 - 60 - 70 - 80 - 100 - 120 - 150			

Table in nominal values

*≥ 35 mil minimum pressure 0,5 bar maximum pressure 3,5 bar
 *< 35 mil minimum pressure 0,5 bar maximum pressure 3,5 bar



Recommended applications

Linear Flat Pc® is particularly suitable for irregular terrain, with slopes and for long runs, also in sub-irrigation and impulse irrigation.



Crops

Linear Flat Pc® is suitable for open field or greenhouse applications in multi-seasonal tree crops such as oranges, lemons, grapes, apples, pears, almonds, olives, kiwis, hazelnuts.

Dripper features

- Flat emitter;
- Flow compensated with silicone diaphragm;
- **No-drain version:** opens and closes all the drippers at the same time and is designed for impulse irrigation or where short and frequent irrigation cycles are required. The system is kept under pressure ensuring perfect uniformity of delivery, saving time, water and energy;
- **Anti-siphon version:** suitable for sub-irrigation as it avoids the phenomenon of suction;
- Constant flow rate as the inlet pressure varies;
- Perfect homogeneity;
- Excellent resistance to clogging;
- Low technological coefficient of variation;



Advantages

- Reliable operation and longer life;
- High resistance to UV rays and fertilizers used in agriculture;
- Ease of application also thanks to the double continuous stripes, emitter side;
- Very little maintenance required.

Sub-irrigation advantages:

- Water saving as it eliminates water evaporation;
- Lower risk of disease as it keeps the top of the soil dry;
- Stronger roots because chasing the water they penetrate deeper into the ground;
- Better efficiency of fertilizers as they are applied directly to the root zone;
- Easy field access for harvesting or maintenance.

Maximum length of recommended lines, in metres, with emission uniformity (E.U.) of 85%

Nominal Diameter Ø 16 mm

 FLOW RATE	 SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	52	70	87	122	147	172	194	215	237	257	1.00
	76	102	140	179	217	253	287	319	350	380	2.00
	89	118	167	214	260	303	343	382	420	456	3.00
1,5	48	64	89	112	131	150	168	184	200	215	1.00
	71	95	132	164	194	222	248	273	296	319	2.00
	86	114	157	197	233	266	298	327	355	384	3.00
2,4	37	49	69	85	101	115	129	142	154	166	1.00
	55	73	101	126	149	171	191	210	228	245	2.00
	65	86	120	150	178	205	228	251	274	294	3.00
3,8	27	36	50	64	76	86	96	106	114	123	1.00
	40	53	75	94	111	127	142	156	170	183	2.00
	48	64	89	112	133	152	170	187	204	219	3.00

Nominal Diameter Ø 20 mm

 FLOW RATE	 SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	87	115	163	204	242	276	309	340	371	399	1.00
	124	165	238	300	355	407	456	502	546	589	2.00
	151	201	284	357	424	487	546	601	655	706	3.00
1,5	69	92	131	164	195	223	250	275	300	322	1.00
	102	136	192	242	287	329	369	406	442	477	2.00
	121	162	230	289	343	395	442	488	531	573	3.00
2,4	53	71	101	126	150	172	192	212	231	248	1.00
	79	105	147	185	220	253	284	313	340	368	2.00
	93	124	176	221	264	303	340	374	408	440	3.00
3,8	39	52	75	94	112	128	144	158	172	185	1.00
	58	78	110	138	164	188	211	233	254	274	2.00
	69	92	130	165	196	225	252	278	304	328	3.00

The values of the lines in meters are indicative

Maximum length of recommended lines, in metres, with emission uniformity (E.U.) of 85%

Nominal Diameter Ø 23 mm

FLOW RATE	SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	100	133	187	234	278	318	356	392	426	458	1.00
	142	190	273	345	408	469	524	578	628	677	2.00
	173	231	327	411	487	560	628	692	753	812	3.00
1,5	79	106	151	189	224	257	288	317	345	370	1.00
	117	156	221	278	330	378	424	467	509	549	2.00
	140	186	264	332	395	454	509	561	610	659	3.00
2,4	61	81	116	145	173	197	221	244	265	286	1.00
	90	120	170	213	253	291	327	360	392	423	2.00
	107	143	202	254	303	348	390	431	470	506	3.00
3,8	45	60	86	108	128	147	165	182	197	213	1.00
	67	89	126	158	189	216	243	268	292	315	2.00
	79	106	149	190	225	259	290	320	349	377	3.00

Nominal Diameter Ø 25 mm

FLOW RATE	SPACING cm										Working pressure (bar)
	15	20	30	40	50	60	70	80	90	100	
1,1	108	144	204	255	302	346	387	426	463	498	1.00
	155	206	297	375	444	509	570	628	683	736	2.00
	188	251	355	446	530	609	683	752	818	883	3.00
1,5	86	115	164	205	244	279	313	344	375	403	1.00
	127	170	240	302	359	411	461	508	553	597	2.00
	152	202	287	361	429	493	553	610	663	717	3.00
2,4	66	89	126	158	188	215	240	266	289	310	1.00
	98	131	184	232	275	316	355	392	426	460	2.00
	116	155	219	276	330	378	424	468	510	550	3.00
3,8	49	65	93	118	139	160	179	198	215	232	1.00
	73	97	137	172	205	235	264	291	318	342	2.00
	86	115	162	206	245	281	315	348	380	410	3.00

The values of the lines in meters are indicative



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Specifications Packaging - Standard rolls

 DIAMETER Ø - mm	 THICKNESS mil	Roll length m	Rolls / Container-Truck			Meters / Container		Meters / Truck
			20Ft	40FtHC	Truck	20Ft	40FtHC	
16	35	500	150	350	370	75.000	175.000	185.000
	40							
	45							
20	40	300	130	300	340	39.000	90.000	102.000
	45							
	48							

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Price tables

Ø Diameter16 mm

THICKNESS	SPACING (cm) also available over 60cm														
	15	20	23	25	30	33	35	40	50	60	70	75	80	90	100
mil	PRICE €/m														
35	0,475	0,394	0,379	0,362	0,341	0,330	0,325	0,313	0,296	0,285	0,277	0,274	0,271	0,257	0,263
40	0,495	0,413	0,400	0,382	0,360	0,350	0,345	0,333	0,317	0,305	0,297	0,294	0,291	0,287	0,283
45	0,515	0,434	0,419	0,402	0,381	0,371	0,365	0,353	0,337	0,326	0,318	0,314	0,312	0,307	0,303

Ø Diameter 20 mm

THICKNESS	SPACING (cm) also available over 60cm														
	15	20	23	25	30	33	35	40	50	60	70	75	80	90	100
mil	PRICE €/m														
40	0,548	0,480	0,465	0,447	0,426	0,417	0,410	0,399	0,382	0,371	0,363	0,360	0,357	0,352	0,349
45	0,572	0,504	0,490	0,473	0,451	0,441	0,436	0,423	0,407	0,396	0,388	0,384	0,382	0,377	0,373
48	0,595	0,525	0,511	0,494	0,472	0,462	0,457	0,445	0,428	0,417	0,409	0,406	0,403	0,398	0,394

Ø Diameter 23 mm

THICKNESS	SPACING (cm) also available over 60cm														
	15	20	23	25	30	33	35	40	50	60	70	75	80	90	100
mil	PRICE €/m														
45	0,600	0,530	0,517	0,500	0,478	0,468	0,462	0,450	0,434	0,423	0,415	0,411	0,408	0,404	0,400
48	0,629	0,556	0,541	0,524	0,502	0,493	0,487	0,475	0,458	0,447	0,439	0,436	0,433	0,428	0,424

Ø Diameter 25 mm

THICKNESS	SPACING (cm) also available over 60cm														
	15	20	23	25	30	33	35	40	50	60	70	75	80	90	100
mil	PRICE €/m														
45	0,626	0,552	0,539	0,521	0,499	0,489	0,484	0,472	0,456	0,445	0,437	0,433	0,43	0,426	0,422
48	0,643	0,573	0,559	0,542	0,520	0,510	0,505	0,493	0,477	0,465	0,458	0,454	0,451	0,447	0,443

Available in brown color with a supplement of €0.047/m