

Solutions for a green future

LUSOFLAT
J-CD02R00



The best thermoplastic solutions for infrastructure networks



Politejo Group was founded in 1978, as an industry specialized in the manufacture of thermoplastic solutions and its main activity is the production of pipes and plastic accessories for the water supply, waste water, irrigation, electricity and telecommunications.

Our strategy is based on the constant innovation of products and services, with a skilled team, able to understand the needs associated with the various sectors and present highly reliable solutions, longevity that allow the conservation of water resources and the environment.

The success of Politejo Group is based on the profile of its employees, with a family-oriented management, due to the strategic location of its manufacturing units and their complete solutions.

This profile enabled a notable growth throughout the last 40 years, and currently Politejo Group is present in Angola, Brazil, Spain, Mozambique and Portugal, with a view to expanding to new locations.

LUSOFLAT



The LusoFlat is a turbulent pipe with an integrated dropper system and great durability thanks to its manufacturing characteristics. Its flat dripper is welded to the inner wall of the pipe, which increases the uniformity of irrigation in rows and prevents sedimentation of particles, thus avoiding clogging of emitters. This pipe is manufactured with high quality materials that give it high tensile strength and great resistance to chemical wear, scratches and tears.

Made with a unique blend of raw materials that gives it flexibility and robustness. The LusoFlat is manufactured in seven thicknesses, two diameters, several distances between drippers and four flow rates, making it a very versatile pipe for use both in the open field and in greenhouses.

Usage tips

- It should have a good particulate filtration system to avoid clogging of emitters, even when they are specially designed to avoid it. A 150 mesh filter system is recommended for a 0.8 lph dripper and 120 mesh for higher flow rates.
- Accurate means of measuring the pressure of our water flow shall be available, the pressure rating being 1 BAR (10 m.c.a.) at the inlet to the irrigation branches.
- The primary and secondary pipes of our installation should be cleaned before starting the first irrigation to avoid clogging the drippers.
- The irrigation pipe will always be installed with the water outlet holes facing upwards, this position being marked with two red lines along the pipe.
- Even with our reel packaging, it must be protected from humidity and sunlight during storage.
- For the choice of filtration system and the characteristics of our irrigation pipe, we recommend technical advice.

Characteristics

Resistance

- High resistance to emitter clogging due to its long, state-of-the-art dripper.

Download

- A good exponent of the discharge equation.

Precision and stability

- Precision and stability in the flow emitted, thus improving the uniformity and well-being of our planting.

Installation

- Red line marking on the top of the irrigation pipe to ensure correct installation.

Dripper

- Long branch lengths due to low dripper pressure drop.

Applications

- Broad spectrum of applications due to its variety of thicknesses, flow rates and distances between drippers.

Traceability

- Traceability is guaranteed thanks to laser marking.

Maximum recommended lengths, according to the spacing of 10 m.ca. and 90% uniformity

0,8 lph - recommended filtration 150 mesh

mm	20 cm	25 cm	30 cm	33 cm	40 cm	50 cm
16 mm	130 mt	153 mt	170 mt	175 mt	190 mt	240 mt

1,3 lph - recommended filtration 120 mesh

mm	20 cm	25 cm	30 cm	33 cm	40 cm	50 cm
16 mm	100 mt	116 mt	133 mt	138 mt	159 mt	180 mt

2 lph - recommended filtration 120 mesh

mm	20 cm	25 cm	30 cm	33 cm	40 cm	50 cm
16 mm	59 mt	71 mt	83 mt	87 mt	106 mt	124 mt

3,8 lph - recommended filtration 120 mesh

mm	20 cm	25 cm	30 cm	33 cm	40 cm	50 cm
16 mm	38 mt	46 mt	54 mt	58 mt	70mt	82 mt

Table of roll length and numbers of rolls on truck**15 mil - Ø 0,40mm**

Reference	Dripper distance	Roll length	Rolls/pallets	Rolls/truck
TLF161520XX130	20	1300	16	640
TLF161530XX130	30	1300	16	640
TLF161540XX150	40	1500	16	640
TLF161550XX150	50	1500	16	640

18 mil - Ø 0,45mm

Reference	Dripper distance	Roll length	Rolls/pallets	Rolls/truck
TLF161820XX100	20	1000	16	640
TLF161830XX100	30	1000	16	640
TLF161840XX110	40	1100	16	640
TLF161850XX110	50	1100	16	640

24 mil - Ø 0,60mm

Reference	Dripper distance	Roll length	Rolls/pallets	Rolls/truck
TLF162420XX070	20	700	12	480
TLF162430XX070	30	700	12	480
TLF162440XX080	40	800	12	480
TLF162450XX080	50	800	12	480

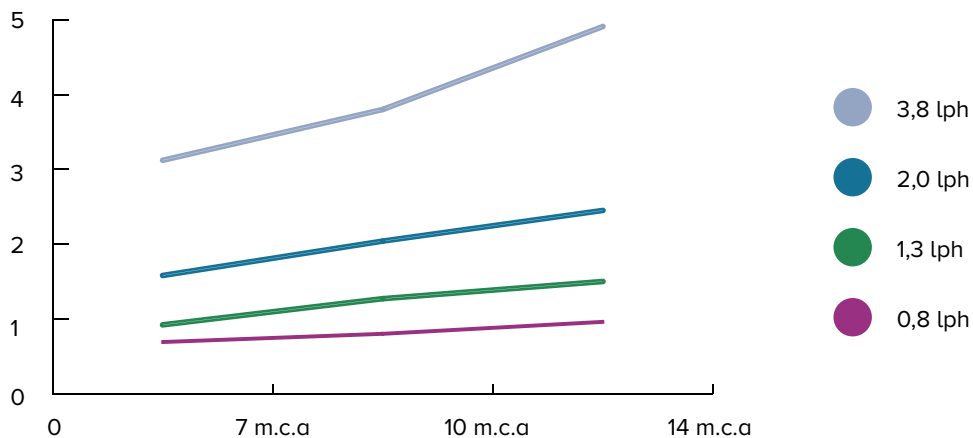
35 mil - Ø 0,9 mm

Reference	Dripper distance	Roll length	Rolls/pallets	Rolls/truck
TLF163520XX050	20	500	12	480
TLF163530XX050	30	500	12	480
TLF163540XX050	40	500	12	480
TLF163550XX050	50	500	12	480

40 mil - Ø 1,00 mm

Reference	Dripper distance	Roll length	Rolls/pallets	Rolls/truck
TLF164020XX050	20	500	12	480
TLF164030XX050	30	500	12	480
TLF164040XX050	40	500	12	480
TLF164050XX050	50	500	12	480

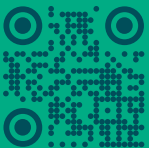
Dripper hydraulic data



Flow	7 m.c.a	PN 10 m.c.a	14 m.c.a	MESH filtration
0,8 lph	0,69	0,8	0,96	150
1,3 lph	0,92	1,27	1,5	120
2,0 lph	1,58	2,04	2,45	120
3,8 lph	3,12	3,8	4,91	120



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