

PEŠTAN

we build trust



agriculture solutions

WE ARE

a private company Peštan, leader in the Balkans in the production and distribution of products and solutions from the polymers.

Company was founded in in 1989 and has been producing water pipes made of polyethylene.

Over time, we introduced new materials (polypropylene and PVC) and expanded product range. Today, in our offer you may find more than 6500 products, divided into four categories:



**PIPING
SOLUTIONS**



**DRAIN
SOLUTIONS**



**AGRICULTURE
SOLUTIONS**



**HOUSEHOLD
SOLUTIONS**



Production facilities of company Peštan are located in Arandjelovac, Serbia. Annual revenue exceeding 70 million EUR, which is realized with the help of 1,000 employees. Peštan has a direct presence, through its daughter companies, in Bosnia and Herzegovina, as well as in Romania and through its representative offices in Albania, Croatia and the United Arab Emirates. Peštan operates in more than 60 countries worldwide through a global network of agents and distributors. Primarily export-oriented, the company is present in the market of Europe, Russia, Middle East, North Africa, Latin America and the United States. The entire production is adjusted to European standards which is proved by international

certificates for quality products: DVGW, MPA, SABS, IMS, IGH, ZIK, VUPS, EMI, and certificates of quality process ISO 9001, ISO 14001, OHSAS 1800. For maximum satisfaction of customer needs, the company is constantly innovating and improving personnel and equipment. Since 2009, the company introduced the SAP ERP modules MM, SD, PP, FI CO, and since 2012 have extended functionality and WMS was included. The introduction of WCM and WMS system has increased the efficiency, contributed to the allocation of costs and professional maintenance. Central warehouse Peštan company is located in Arandjelovac in Serbia, which is sized and designed to meet the requirements of the most

demanding customers who want efficient and reliable delivery of products. To respond to these requirements, Peštan has 14 000 m² of closed storage space for finished and semi-finished products 5,000 m² warehouse for raw materials and intermediate goods, and approximately 50,000 m² of open storage space. Indoor storage space equipped with shelves with over 21,000 pallet positions. Our vision is to be recognized as a leader in the Balkans, which provides customers with diversified solutions and products in one place. Our mission is creating a competitive advantage in our customers' businesses with the help of first-class solutions, services and products. We provide our company's success by consistently meeting the needs of clients, stakeholders and employees.



KEY FACTS

60

AND MORE
COUNTRIES
WHERE WE EXPORT
OUR PRODUCTS

6,500

DIFFERENT PRODUCTS
IN OUR PRODUCTION
ASSORTMENT

50,000

TONS OF MATERIAL
PROCESSED
ANNUALLY



IRRIGATION TAPES

We present you Peštan extruded tapes and pipes for irrigation (drip), with no overlap. Extrusion without overlap eliminates the possibility of damage to the flap and prevents interference at system startup.

Extrusion technology utilizes high-quality specially developed polymers, renowned for their firmness and flexibility. These polymers were developed specially for use in heavy industrial and agricultural environments.

A special system of forming tapes with a constant labyrinth delivers superior performance and uniformity of drippers. The design of constant labyrinth provides a high degree of resistance to blockage and longer use of the system, and therefore more rational utilization of water.

Hirro drip is the tape model with flat drippers. Dripper with double positioned filtration provides highest protection of the blockage. The largest area of filtration on the market is set over the entire length of the dripper.

Entire production is performed according to standard SRPS EN ISO 9261:2011.





Drop by drop irrigation enables efficient watering, supplying crucial part of the plant with water – the root. This way loss of water is prevented, water is not retained on the leaves or soil which significantly reduces evaporation or the outflow of the water.

With traditional irrigation systems, the water level is higher than soil can absorb, which causes higher water losses.



System drop by drop delivers water to roots of plants and the soil between plants remains dry. This is very important, because if the soil remains dry, most seeds will not germinate.

When water is applied using traditional irrigation system, the soil between plants remains wet and most seeds germinate. Maintenance of the drop by drop system takes less time.



When plants get deep, consistent watering, they thrive. Inefficient, shallow watering can be a real stress for plants. Drip irrigation system promotes healthy growth and disease resistance plants.



Drop by drop irrigation, with additional fitting and drippers gives large number of options. The system can be installed at various soil types. It is ideal for irrigation on uneven soil, windy areas as also on usual types of land.

Existing sprinkler systems for watering can be adapted to drop by drop system with little effort.



Install the drop by drop irrigation system and you will use less water to irrigate. If you are using wells, you will notice a significant decrease in your pumping costs. You will no longer need to water the garden manually. With automatization of your system, you will not need to hire someone to water the plants while you are on vacation.

The reduction of plant diseases and unwanted weeds will considerably reduce your gardening labour and maintenance costs.



HIRRO TAPE

IRRIGATION TAPE WITH CONTINUOUS LABYRINTH

hirro[®] tape

Design of continuous labyrinth provides a high degree of resistance to clogging and longer use of the system, and therefore the more rational use of water. A special system of design of a tape with constant labyrinths provides superior performance and uniformity of emitters.



- Seamless construction for greater reliability
- Precisely shaped emitters for high uniformity of flow
- Double water filtration through the 110 properly positioned points
- Micro precise slits eliminates blockages on the startup and prevents from root intrusion
- The turbulent flow-path design provides high degree of resistance to clogging
- Available in a wide range of wall thicknesses, outlet spacings and flow rates
- Clearly visible blue ribbons for better recognition and indicators emitters
- High resistance to tensile and cracking
- Strong material resistant to abrasion reduces land damages
- Thanks to the versatility and reliability it is easy to install and reduces your work time
- The production of the system and its quality is in accordance with DIN EN ISO 9261:2011.

TECHNICAL DATA

DIAMETER [Ø]	WALL THICKNESS	INNER DIAMETER [ID]	OUTER DIAMETER [OD]	OPERATING PRESSURE	PRESSURE OF WASHING	MINIMAL FILTRATION
16mm	6mil [150mic]	16,1mm	16,4mm	0.7bar	1.2bar	100mic / 150mesh
16mm	8mil [200mic]	16,1mm	16,5mm	0.7bar	1.7bar	100mic / 150mesh
16mm	10mil [250mic]	16,1mm	16,6mm	0.7bar	2.1bar	100mic / 150mesh
16mm	12mil [300mic]	16,1mm	16,7mm	0.7bar	2.4bar	100mic / 150mesh



FILTRATION

Double-filtration of water through 110 properly positioned points.



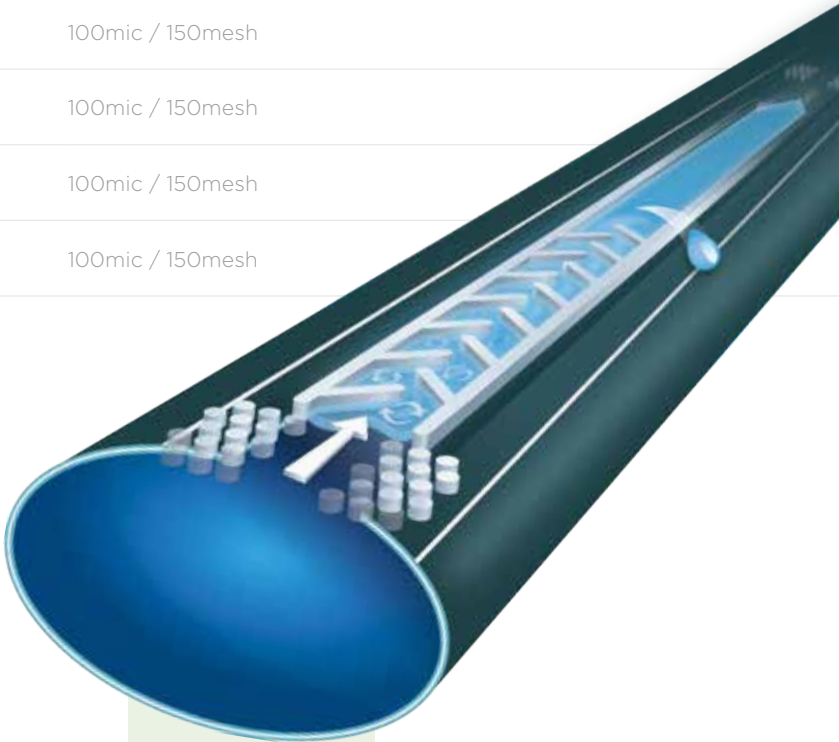
LABYRINTH

Constant labyrinth of flow control



WATER OUTPUT

Micro-precise slit



98%
UNIFORMITY
GARANTED



LENGTH OF THE APPLICATION OF THE HIRRO® TAPE (in meters)

Depending of the uniformity of the field with a constant pressure of 0.7 bar for pipe diameters Ø16.

EMITTER FLOW RATE	UNIFORMITY	10CM	15CM	20CM	30CM	40CM
0,6 L/h	90%	140m	180m	210m	268m	320m
	85%	170m	220m	260m	335m	400m
1,0 L/h	90%	100m	125m	150m	190m	225m
	85%	125m	160m	185m	235m	280m
1,5 L/h	90%	35m	45m	50m	65m	80m
	85%	75m	95m	115m	150m	180m

*Measureings are of informative nature

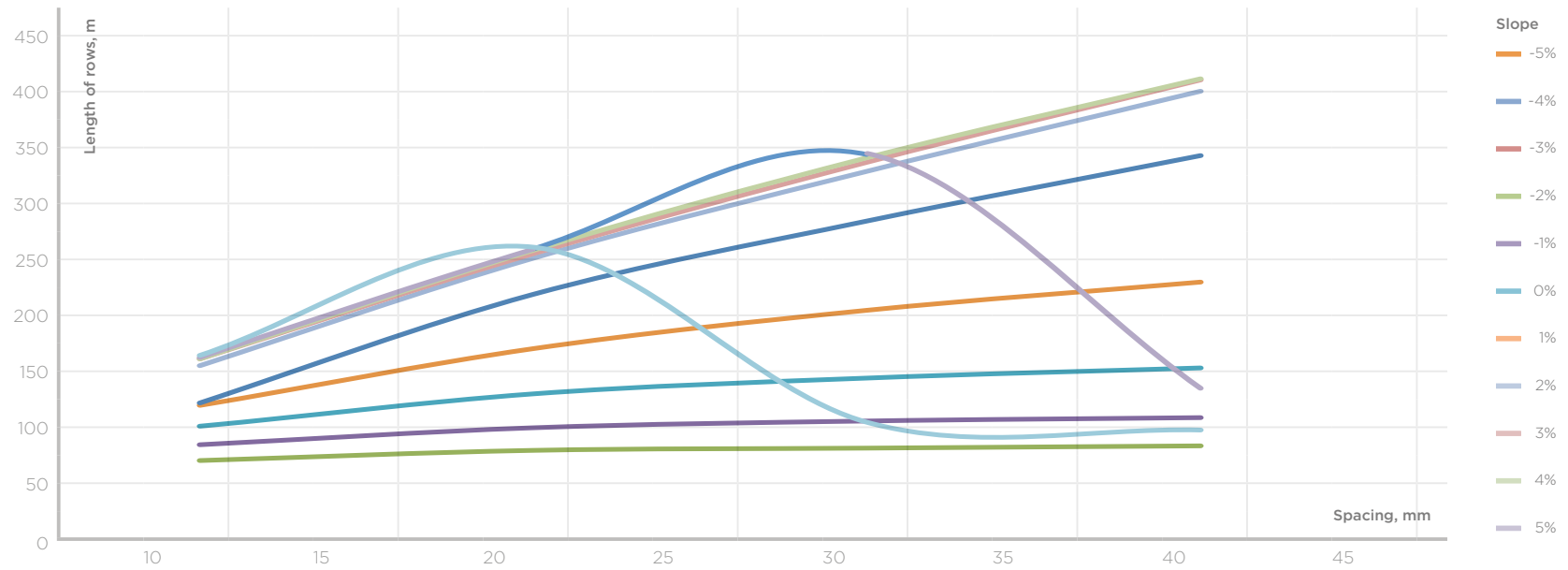
Use and selection

In this time of water and resource conservation, drip irrigation is very important. It is cheaper to install this system than traditional irrigation systems and it uses much less water.

Light- walled products are for short season crops, for soil without rocks. Medium wall thickness products are for general use in longer-term crops and average soil conditions. Heavy wall-thickness products are designed for rocky soils, when insects can damage stripes or for more than one season.

LENGTH OF THE ROW DEPENDING ON THE EMITTER SPACING

The terrain inclination from -5% to +5%, 85% uniformity of flow, working pressure of 0.7 bar, 16mm ID





hirro[®]tape - PRODUCT RANGE

The table shows the characteristics of the wall thickness of 0.15 mm and 0.20 mm with spacing of emitters to 10cm, 20cm and 30cm. There is a possibility of making tape with a special purpose wall thickness as well as special purpose space emitters.

CODE	PRODUCT DESCRIPTION	INNER DIAMETER [ID]	WALL THICKNESS [MIL/MIC]	EMITTER SPACING	FLOW L/EMITTER	FLOW L/METER	COIL LENGTH
16060610	Hirro [®] Tape 6	16mm	6mil [150mic]	10cm	0,6l/h	6lph/m	3000m
16060615	Hirro [®] Tape 6	16mm	6mil [150mic]	15cm	0,6l/h	4lph/m	3000m
16060620	Hirro [®] Tape 6	16mm	6mil [150mic]	20cm	0,6l/h	3lph/m	3000m
16060630	Hirro [®] Tape 6	16mm	6mil [150mic]	30cm	0,6l/h	2lph/m	3000m
16080610	Hirro [®] Tape 6	16mm	8mil [200mic]	10cm	0,6l/h	6lph/m	2500m
16080615	Hirro [®] Tape 6	16mm	8mil [200mic]	15cm	0,6l/h	4lph/m	2500m
16080620	Hirro [®] Tape 6	16mm	8mil [200mic]	20cm	0,6l/h	3lph/m	2500m
16080630	Hirro [®] Tape 6	16mm	8mil [200mic]	30cm	0,6l/h	2lph/m	2500m
16061010	Hirro [®] Tape 10	16mm	6mil [150mic]	10cm	1,0l/h	10lph/m	3000m
16061015	Hirro [®] Tape 10	16mm	6mil [150mic]	15cm	1,0l/h	6,5lph/m	3000m
16061020	Hirro [®] Tape 10	16mm	6mil [150mic]	20cm	1,0l/h	5lph/m	3000m
16061030	Hirro [®] Tape 10	16mm	6mil [150mic]	30cm	1,0l/h	3,5lph/m	3000m
16081010	Hirro [®] Tape 10	16mm	8mil [200mic]	10cm	1,0l/h	10lph/m	2500m
16081015	Hirro [®] Tape 10	16mm	8mil [200mic]	15cm	1,0l/h	6,5lph/m	2500m
16081020	Hirro [®] Tape 10	16mm	8mil [200mic]	20cm	1,0l/h	5lph/m	2500m
16081030	Hirro [®] Tape 10	16mm	8mil [200mic]	30cm	1,0l/h	3,5lph/m	2500m
16061510	Hirro [®] Tape 15	16mm	6mil [150mic]	10cm	1,5l/h	15lph/m	3000m
16061515	Hirro [®] Tape 15	16mm	6mil [150mic]	15cm	1,5l/h	10lph/m	3000m
16061520	Hirro [®] Tape 15	16mm	6mil [150mic]	20cm	1,5l/h	7,5lph/m	3000m
16061530	Hirro [®] Tape 15	16mm	6mil [150mic]	30cm	1,5l/h	5lph/m	3000m
16081510	Hirro [®] Tape 15	16mm	8mil [200mic]	10cm	1,5l/h	15lph/m	2500m
16081515	Hirro [®] Tape 15	16mm	8mil [200mic]	20cm	1,5l/h	10lph/m	2500m
16081520	Hirro [®] Tape 15	16mm	8mil [200mic]	20cm	1,5l/h	7,5lph/m	2500m
16081530	Hirro [®] Tape 15	16mm	8mil [200mic]	30cm	1,5l/h	5lph/m	2500m



HIRRO DRIP

IRRIGATION TAPE WITH INTEGRATED EMITTERS

hirro[®]drip

Dripper with double positioned filtration provides maximum protection against clogging. The largest filtration area on the market , positioned on the entire dripper length.

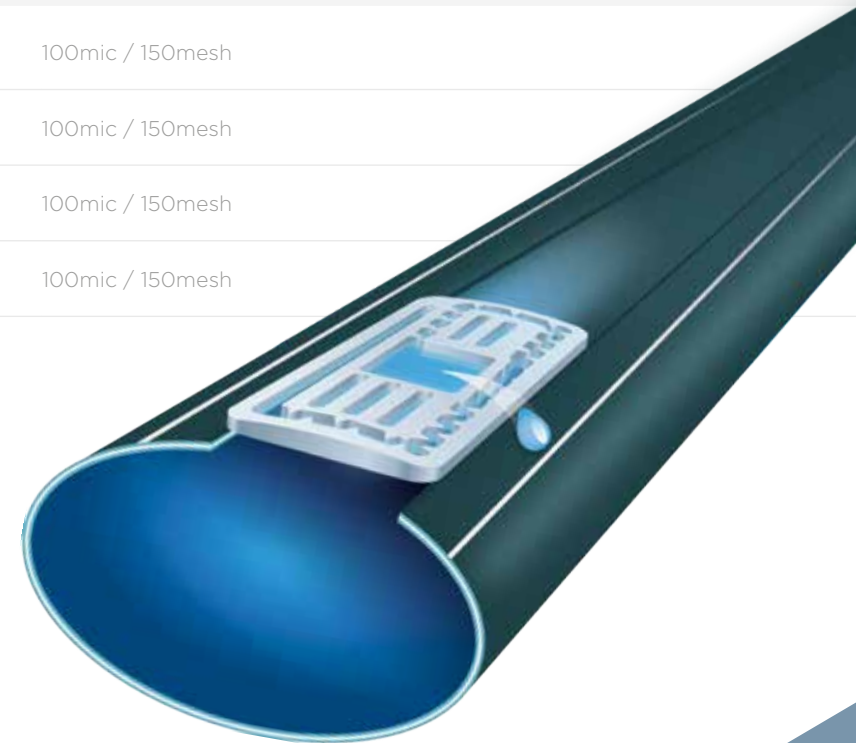
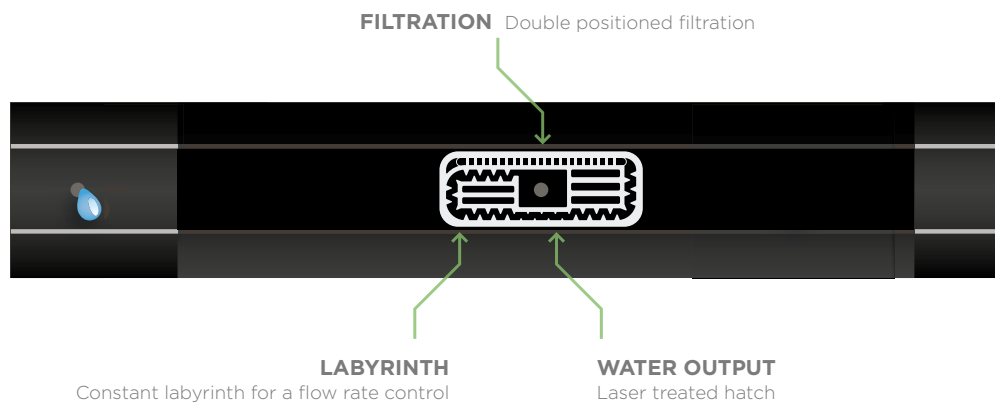


- Construction without overlap for greater resistance to the pressures of tape
- Design and production technologies guarantee a high level of accuracy in the development of the filter part and a high level of protection against clogging
- Precisely drilled holes using laser technology
- Extremely low coefficient of variation (CV) provides high uniformity in the use of

- Clearly visible white lines for better positioning of setting of a tape
- High resistance to cracking and stretching
- It is available in different wall thickness, emitter spacing and flow
- Solid material, resistant to abrasion, reducing land degradation
- Easy installation thanks to the versatility and reliability
- Production and quality control are in accordance with the international standard EN ISO 9261:2011

TECHNICAL DATA

DIAMETER [Ø]	WALL THICKNESS	INNER DIAMETER [ID]	OUTER DIAMETER [OD]	OPERATING PRESSURE	PRESSURE OF WASHING	MINIMAL FILTRATION
16mm	6mil [150mic]	16,1mm	16,4mm	0.7bar	1.2bar	100mic / 150mesh
16mm	8mil [200mic]	16,1mm	16,5mm	0.7bar	1.7bar	100mic / 150mesh
16mm	10mil [250mic]	16,1mm	16,6mm	0.7bar	2.1bar	100mic / 150mesh
16mm	12mil [300mic]	16,1mm	16,7mm	0.7bar	2.4bar	100mic / 150mesh



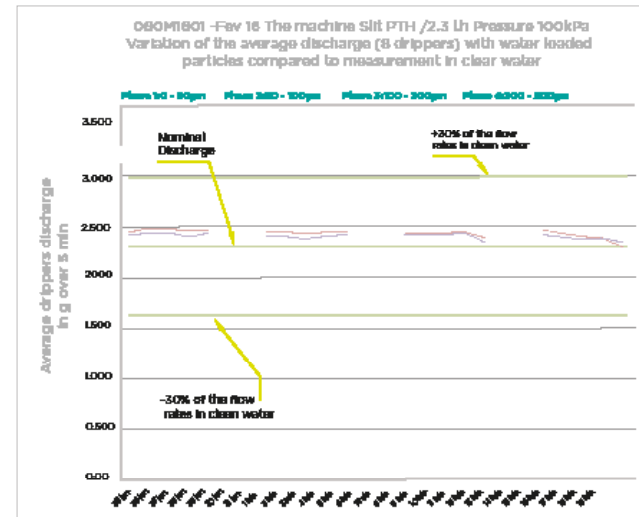
Platform for Research and experiment on Science and Technology for Irrigation

LENGTH OF THE APPLICATION OF THE HIRRO® DRIP (in meters)

Depending of the uniformity of the field with a constant pressure of 0.7 bar for pipe diameters Ø16.

DRIPPER FLOW RATE	UNIFORMITY	20CM	30CM	40CM
1,1 L/h	90%	138m	180m	216m
	85%	170m	222m	267m
1,6 L/h	90%	110m	140m	170m
	85%	135m	175m	210m
2,3 L/h	90%	86m	112m	135m
	85%	107m	139m	167m
2,6 L/h	90%	82m	106m	128m
	85%	102m	137m	160m
3,0 L/h	90%	79m	100m	120m
	85%	98m	123m	150m

*Measureings are of informative nature

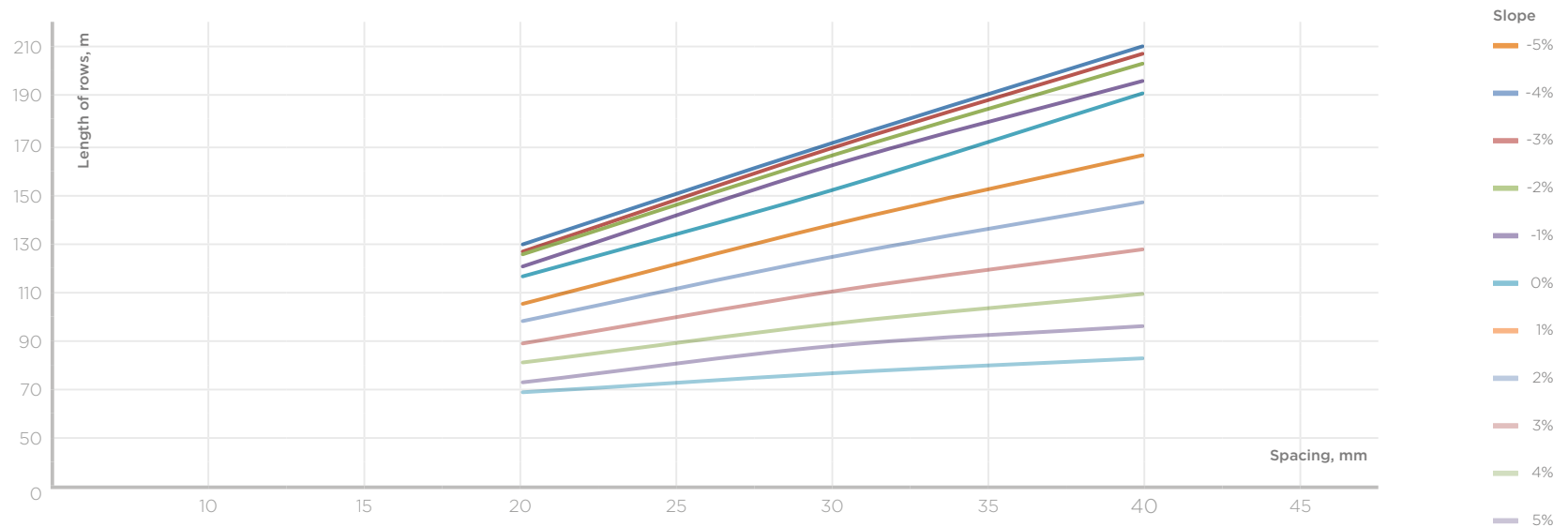


CLOGGING REPORT

The classification of this emitter is Non sensitive to clogging. Consequently a 130 microns filtration should protect the drippers against physical clogging following the classification proposed by Irstea.

LENGTH OF THE ROW DEPENDING ON THE EMITTER SPACING

The terrain inclination from -5% to +5%, 85% uniformity of flow, working pressure of 0.7 bar, 16mm ID



3DTECH

Three-dimensional position transmitters input filtering allows a better acceptance of water.



hirro[®]drip - PRODUCT RANGE

The table shows the characteristics of a wall thickness of 0.15 mm and 0.20 mm and the spacing of the emitters 20cm, 30cm and 40cm. There is a possibility of making tape with a special purpose wall thickness as well as special purpose space emitters.

CODE	PRODUCT DESCRIPTION	INNER DIAMETER [ID]	WALL THICKNESS [MIL/MIC]	EMITTER SPACING	FLOW L/EMITTER	FLOW L/METER	COIL LENGTH
16061120	Hirro [®] Drip 11	16mm	6mil [150mic]	20cm	1,1l/h	5,5lph/m	3000m
16061130	Hirro [®] Drip 11	16mm	6mil [150mic]	30cm	1,1l/h	3,7lph/m	3000m
16081120	Hirro [®] Drip 11	16mm	8mil [200mic]	20cm	1,1l/h	5,5lph/m	2500m
16081130	Hirro [®] Drip 11	16mm	8mil [200mic]	30cm	1,1l/h	3,7lph/m	2500m
16061620	Hirro [®] Drip 16	16mm	6mil [150mic]	20cm	1,6l/h	8lph/m	3000m
16061630	Hirro [®] Drip 16	16mm	6mil [150mic]	30cm	1,6l/h	5lph/m	3000m
16081620	Hirro [®] Drip 16	16mm	8mil [200mic]	20cm	1,6l/h	8lph/m	2500m
16081630	Hirro [®] Drip 16	16mm	8mil [200mic]	30cm	1,6l/h	5lph/m	2500m
16062320	Hirro [®] Drip 23	16mm	6mil [150mic]	20cm	2,3l/h	11,5lph/m	3000m
16062330	Hirro [®] Drip 23	16mm	6mil [150mic]	30cm	2,3l/h	7,5lph/m	3000m
16082320	Hirro [®] Drip 23	16mm	8mil [200mic]	20cm	2,3l/h	11,5lph/m	2500m
16082330	Hirro [®] Drip 23	16mm	8mil [200mic]	30cm	2,3l/h	7,5lph/m	2500m
16062620	Hirro [®] Drip 26	16mm	6mil [150mic]	20cm	2,6l/h	13lph/m	3000m
16062630	Hirro [®] Drip 26	16mm	6mil [150mic]	30cm	2,6l/h	8,5lph/m	3000m
16082620	Hirro [®] Drip 26	16mm	8mil [200mic]	20cm	2,6l/h	13lph/m	2500m
16082630	Hirro [®] Drip 26	16mm	8mil [200mic]	30cm	2,6l/h	8,5lph/m	2500m
16063020	Hirro [®] Drip 30	16mm	6mil [150mic]	20cm	3,0l/h	15lph/m	3000m
16063030	Hirro [®] Drip 30	16mm	6mil [150mic]	30cm	3,0l/h	10lph/m	3000m
16083020	Hirro [®] Drip 30	16mm	8mil [200mic]	20cm	3,0l/h	15lph/m	2500m
16083030	Hirro [®] Drip 30	16mm	8mil [200mic]	30cm	3,0l/h	10lph/m	2500m



HIRRO DRIP HD

IRRIGATION TAPE WITH INTEGRATED NANO EMITTERS

hirro[®] hd

Asymmetrical, non-compensating flat dripper with positioned filtration provides maximum protection against clogging. Hyperdriper provides superior flow rate and high clogging resistance.



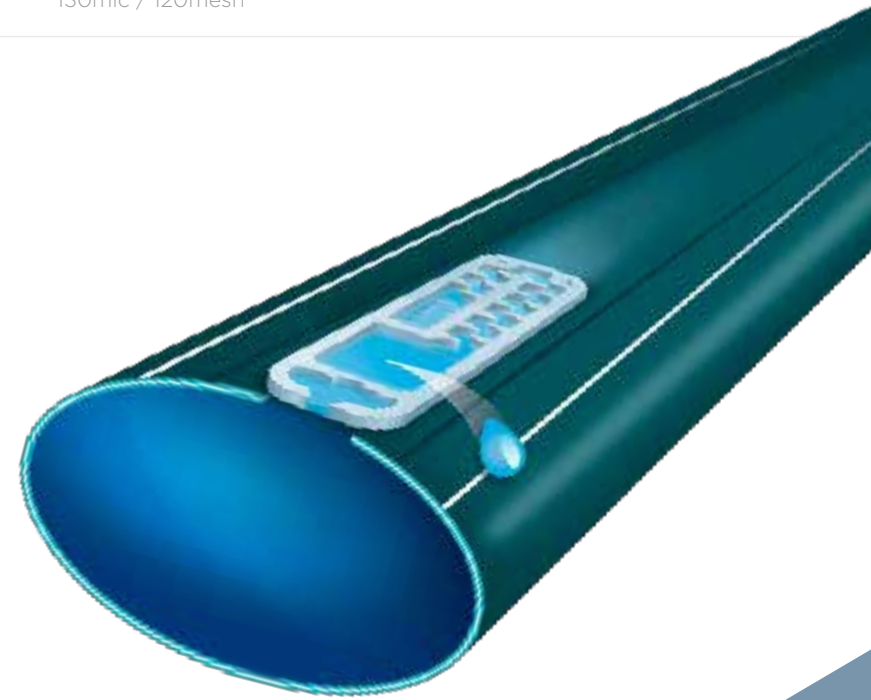
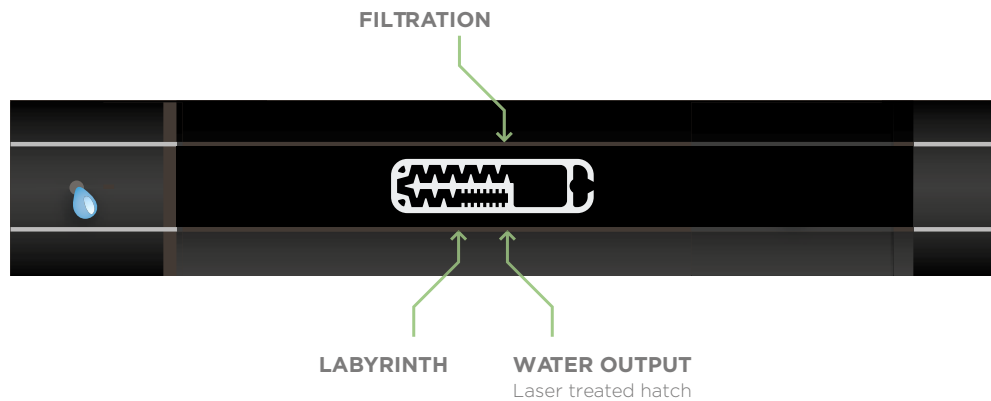
- Construction without overlap for greater resistance to the pressures of tape
- Design and production technologies guarantee a high level of accuracy in the development of the filter part and a high level of protection against clogging
- Precisely drilled holes using laser technology
- Extremely low coefficient of variation (CV) provides high uniformity in the use of
- Clearly visible white lines for better positioning of setting of a tape
- High resistance to cracking and stretching
- It is available in different wall thickness, emitter spacing and flow
- Solid material, resistant to abrasion, reducing land degradation
- Easy installation thanks to the versatility and reliability
- Production and quality control are in accordance with the international standard EN ISO 9261:2011

TECHNICAL DATA

DIAMETER [Ø]	WALL THICKNESS	INNER DIAMETER [ID]	OUTER DIAMETER [OD]	OPERATING PRESSURE	PRESSURE OF WASHING	MINIMAL FILTRATION
16mm	6mil [150mic]	16,1mm	16,4mm	0.7bar	1.2bar	130mic / 120mesh

CARACTERISTICS

- Asymmetrical, non-compensating flat dripper
- Superior flow rate characteristics
- High clogging resistance - **Irstea report**
- Sand protective barrier
- Modern labyrinth design:
- Large filtration area



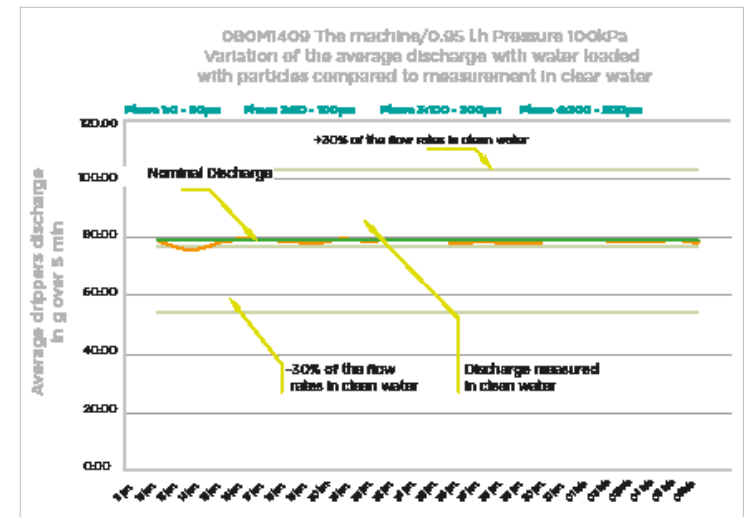
Platform for Research and experiment on Science and Technology for Irrigation

LENGTH OF THE APPLICATION OF THE HIRRO® HD (in meters)

Depending of the uniformity of the field with a constant pressure of 0.7 bar for pipe diameters Ø16.

DRIPPER FLOW RATE	UNIFORMITY	10CM	20CM	30CM
0,9 L/h	90%	100m	150m	200m
	85%	125m	180m	250m
1,3 L/h	90%	80m	130m	150m
	85%	100m	160m	190m

*Measureings are of informative nature

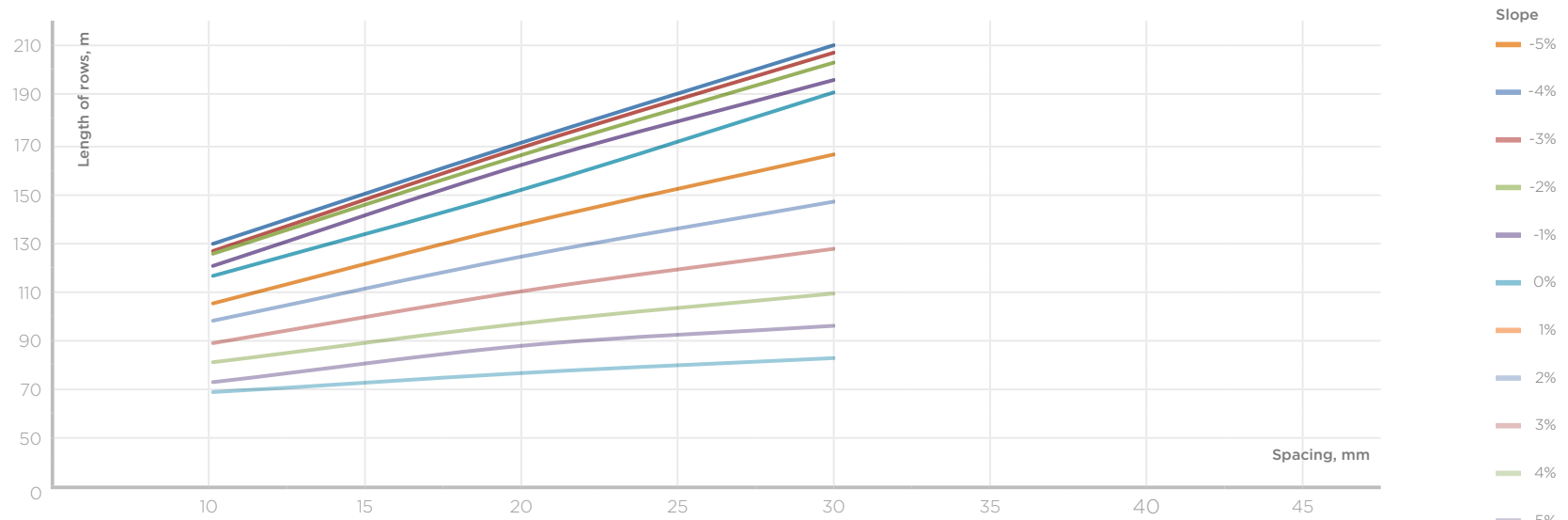


CLOGGING REPORT

Mentioned characteristics and features guarantee a high performance of the Hyperdrip in the field as well as an easy handling of the dripper during production of the tube in the production line.

LENGTH OF THE ROW DEPENDING ON THE EMITTER SPACING

The terrain inclination from -5% to +5%, 85% uniformity of flow, working pressure of 0.7 bar, 16mm ID





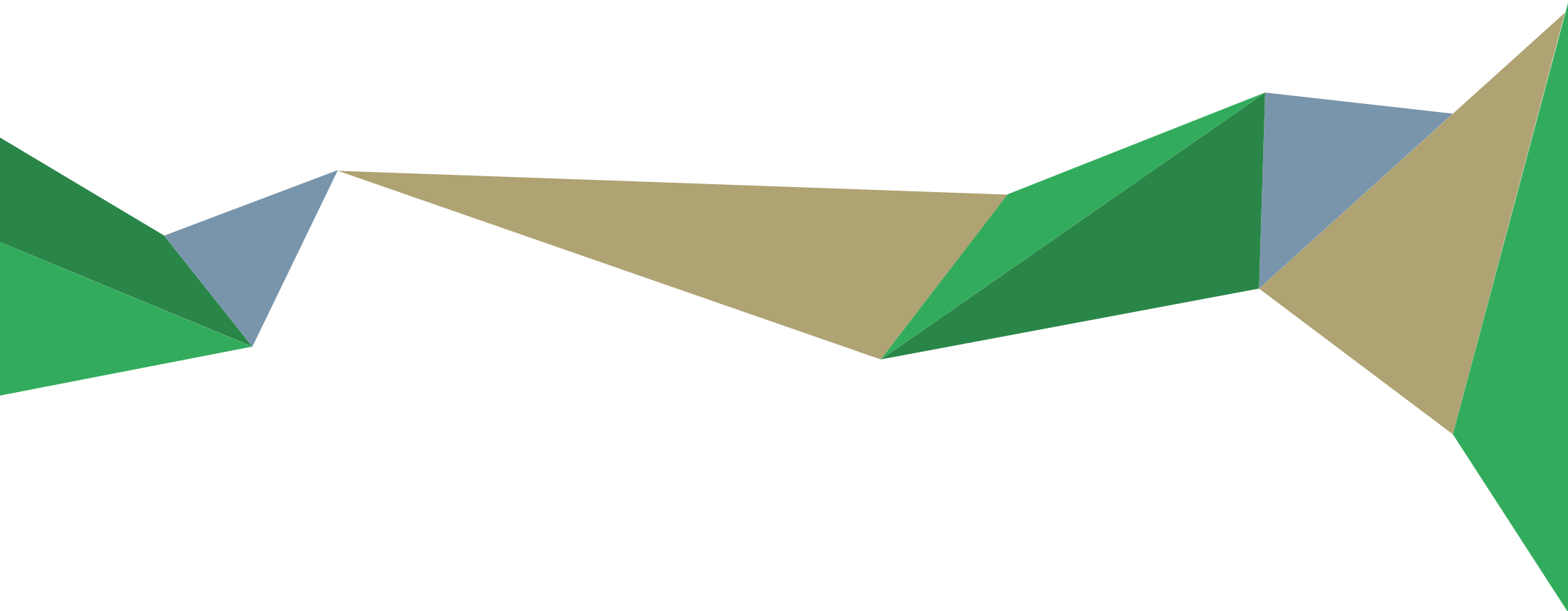
hirro[®]hd - PRODUCT RANGE

The table shows the characteristics of a wall thickness of 0.15 mm and the spacing of the emitters 10cm, 20cm and 30cm. There is a possibility of making tape with a special purpose wall thickness as well as special purpose space emitters.

CODE	PRODUCT DESCRIPTION	INNER DIAMETER [ID]	WALL THICKNESS [MIL/MIC]	EMITTER SPACING	FLOW L/EMITTER	FLOW L/METER	COIL LENGTH
16060910	Hirro [®] HD 09	16mm	6mil [150mic]	10cm	0,9l/h	9lph/m	3000m
16060915	Hirro [®] HD 09	16mm	6mil [150mic]	15cm	0,9l/h	6lph/m	3000m
16060920	Hirro [®] HD 09	16mm	6mil [150mic]	20cm	0,9l/h	4,5lph/m	3000m
16060925	Hirro [®] HD 09	16mm	6mil [150mic]	25cm	0,9l/h	3,6lph/m	3000m
16060930	Hirro [®] HD 09	16mm	6mil [150mic]	30cm	0,9l/h	3lph/m	3000m
16061310	Hirro [®] HD 13	16mm	6mil [150mic]	10cm	1,3l/h	13lph/m	3000m
16061315	Hirro [®] HD 13	16mm	6mil [150mic]	15cm	1,3l/h	8,6lph/m	3000m
16061320	Hirro [®] HD 13	16mm	6mil [150mic]	20cm	1,3l/h	6,5lph/m	3000m
16061325	Hirro [®] HD 13	16mm	6mil [150mic]	25cm	1,3l/h	5,2lph/m	3000m
16061330	Hirro [®] HD 13	16mm	6mil [150mic]	30cm	1,3l/h	4,3lph/m	3000m

PACKAGING





BRAND MANIFESTO

We do not only sell pipes, we combine reliability with quality for the ultimate benefit of our clients.

We do not build short-term client relationships, but long-term and genuine partnerships.

Everything we do, we do with one thing in mind - to create ideas to perfectly match all our client needs and the best way for us to achieve this goal is to...

Constantly educate our clients provide solutions that meet their specific needs and support them throughout the entire process.

Because our success is as big as your trust in us.



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