



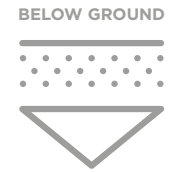
HDPE OD DRAINAGE PIPES





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HDPE drainage corrugated pipes



HDPE DRAINAGE CORRUGATED PIPES

The need for water is a basic life requirement. But the uncontrolled flow of water can often cause problems, because effective drainage plays an important role in agriculture and construction of sports facilities, roads and buildings. If appropriate pipes are not placed in proper accordance with the present water and land management, for example while building brick buildings, irreparable damage can be done in a short time. As a result, drainage systems are necessary aspect of any

construction work especially in agriculture and construction of roads and buildings, where we have the optimum protection and treatment of ground water resources.

Corrugated pipes are characterized by their "sandwich" structure. Outer wall of the corrugated pipes provides high rigidity and stability of these pipes, while the smooth inner wall provides optimum water flow speed. Inner and outer wall are connected homogeneous. Water

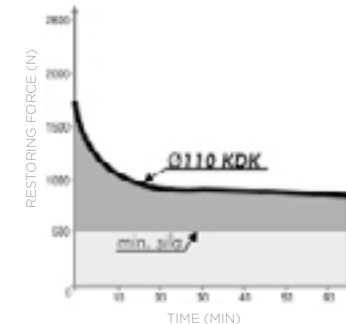
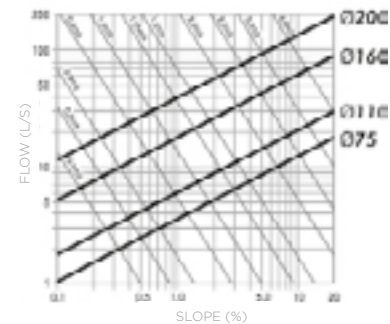
entrance slots are placed symmetrically in scope and throughput the entire length of pipe. Gaps are imprinted into the channels of corrugated pipes maximum protection of the filter layer that surrounds it. This allows the water to gain access to a large extent without any obstacles. Gaps make > 50cm² / m of the surface for water entrance. PEŠTAN is manufacturing drainage pipes from HDPE / HDPE and HDPE / LDPE with smooth inner and corrugated outer wall.

HDPE DRAINAGE CORRUGATED PIPES FEATURES

- Material: HDPE
- Standard: DIN 4262/1
- Density: >0,945Kg/m³
- MFI 190°C/5Kg 0,35-1,3gr/10'
- Elastic modulus >800MPa
- Thermal expansion coefficients: 0,17mm/m°K
- Coefficients of thermal conductivity: na 23°C - 0,36-0,5W/mk
- Surface Resistivity: >10¹³Ω
- Type of connection through socket without rubber
- Laying of pipelines and the use of HDPE pipelines is between -40°C to +60°C.
- Ring stiffness SN=4KN/m² (EN ISO 9969)
- Standard color is black

HYDRAULIC CHARACTERISTICS

The diagram shows the hydraulic characteristics based on the coefficient of rigidness $k_b = 0.5$



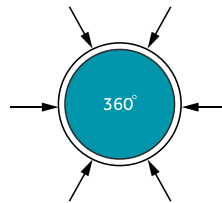
TYPES OF PIPES

There are three types of drainage pipes made of polyethylene, defined through outside diameter - pipe OD:

- KD - rigid drainage pipes (fully perforated)
- KDK - rigid drainage - sewerage pipes (partially perforated)
- FDK - flexible drainage pipes (fully perforated)

KD - RIGID DRAINAGE PIPES (FULLY PERFORATED)

KD pipes function is to provide optimum drainage podstepena and anti-freeze layer. This applies both during construction and completion of the works site by entering the existing water and transporting it to the exit spot. The joints are impermeable to sand. It is not necessary to place a rubber. Standard implies 6 slots along the scope with angle of 60°.



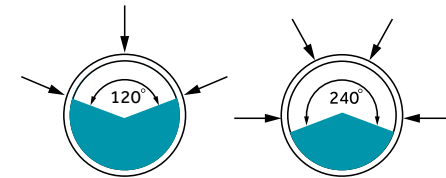
CODE	OUTTER DIAMETER (MM)	INNER DIAMETER (MM)	STANDARD GAP (MM)	SPACE FOR WATER INLET (CM ² /M)	STANDARD LENGTH (M)
10800000	Ø75	Ø62	1 - 1,4	>50	6
10800001	Ø90	Ø75	1 - 1,4	>50	6
10800002	Ø110	Ø92	1 - 1,4	>50	6
10800003	Ø125	Ø108	1 - 1,4	>50	6
10800004	Ø160	Ø138	1 - 1,4	>50	6
10800005	Ø200	Ø176	1 - 1,4	>50	6
00000000	Ø250	Ø222	1 - 1,4	>50	6
00000000	Ø315	Ø278	1 - 1,4	>50	6
00000000	Ø400	Ø348	1 - 1,4	>50	6
00000000	Ø500	Ø432	1 - 1,4	>50	6

KDK – RIGID DRAINAGE – SEWERAGE PIPES (PARTIALLY PERFORATED)

Partially perforated KDK rigid drainage-sewerage pipes are perfect combination of perforated and collecting pipe. If requested, they must be able to collect and transport any surface water

that occurs, the short and long distances. Joints are impervious to water and sand because of the transport. Rubber is inserted into the third channel of the corrugated pipe and the socket

is slipped over the lubricated rubber. The pipes must be professionally installed by respecting the guidelines for laying of pipelines specified 1610 DIN4033.



CODE 220°	CODE 150°	OUTTER DIAMETER (MM)	INNER DIAMETER (MM)	STANDARD GAP (MM)	SPACE FOR WATER INLET (CM ² /M)	STANDARD LENGTH (M)
10800100	10800200	Ø75	Ø62	1 - 1,4	>50	6
10800101	10800201	Ø90	Ø75	1 - 1,4	>50	6
10800102	10800202	Ø110	Ø92	1 - 1,4	>50	6
10800103	10800203	Ø125	Ø108	1 - 1,4	>50	6
10800104	10800204	Ø160	Ø138	1 - 1,4	>50	6
10800105	10800205	Ø200	Ø176	1 - 1,4	>50	6
00000000	00000000	Ø250	Ø222	1 - 1,4	>50	6
00000000	00000000	Ø315	Ø278	1 - 1,4	>50	6
00000000	00000000	Ø400	Ø348	1 - 1,4	>50	6
00000000	00000000	Ø500	Ø432	1 - 1,4	>50	6

FDK – FLEXIBLE DRAINAGE PIPES (FULLY PERFORATED)

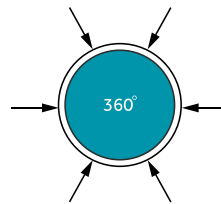
These pipes are light, highly flexible, resistant to UV light, solid and economical, easy to assemble. Due to special production process, the inner side of the pipe is smooth while the outer side is corrugated. The pipes are continued with coupling, which is impervious to sand. Application

temperature is from -40°C to $+60^{\circ}\text{C}$. They are made of a material HDPE / LDPE. Gaps make $> 50\text{cm}^2 / \text{m}$ of the water entrance surface. The slots are placed symmetrically in each channel of corrugated pipe. They are laid faster and better automatically. While settling, the pipes can be

encased with filter material. The role of filters is to increase throughput and prevent rapid clogging pipes. It is possible to choose the number of slots for entry of water. Standard color is black and yellow-black. Other colors are possible by demand. They are packed and shipped in 50m long coils.

IT IS POSSIBLE TO CHOOSE THE NUMBER OF SLOTS FOR ENTRY OF WATER.

On request peřtan is able to produce rigid drainage – sewerage pipes (partially perforated) with bigger perforation $50\text{-}200\text{cm}^2/\text{m}$ for diameters from $\varnothing 75\text{-}\varnothing 315$



CODE	OUTTER DIAMETER (MM)	INNER DIAMETER (MM)	STANDARD GAP (MM)	SPACE FOR WATER INLET (CM ² /M)	STANDARD LENGTH (M)
10800500	Ø75	Ø62	1 - 1,4	>50	100
10800501	Ø90	Ø75	1 - 1,4	>50	100
10800502	Ø110	Ø92	1 - 1,4	>50	50
10800503	Ø125	Ø108	1 - 1,4	>50	50
10800504	Ø160	Ø138	1 - 1,4	>50	50
10800505	Ø200	Ø176	1 - 1,4	>50	50
00000000	Ø250	Ø222	1 - 1,4	>50	6
00000000	Ø315	Ø278	1 - 1,4	>50	6
00000000	Ø400	Ø348	1 - 1,4	>50	6
00000000	Ø500	Ø432	1 - 1,4	>50	6