

Гофрированные дренажные трубы для монтажа под землей PP CORRUGATED DRAINAGE ID PIPES, PE CORRUGATED DRAINAGE PIPES ID, PE CORRUGATED DRAINAGE OD PIPES, PVC DRAINAGE PIPES

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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

почта: pad@nt-rt.ru || сайт: <https://pestan.nt-rt.ru/>

PP ID CORRUGATED DRAINAGE PIPES

Tehnički list

Applications

Bearing in mind the need for drainage of excess water from the soil, Peštan included corrugated drainage and polypropylene (PP) pipes in its production portfolio. Peštan provides a large range of diameters in accordance with DIN 4262/1. These pipes, thanks to their large hydraulic capacity and a wide range of diameters, are fully able to respond to any request and provide a reliable and long-term drainage of ground.

Mechanical and physical characteristics

- Material: PP-B copolymer
- Fast and inexpensive mounting
- Standard: DIN 4262/1
- Density: > 0,900 Kg/m³
- Pour Index: MFR 230 °C/2.16 0,30 gr/10'
- Modulus of elasticity: MPa 1500/2000
- Tensile strength: 32 Mpa
- Impact strength according to Charpy: at 23 °C ≈ 70kJ/m²; at -23 °C ≈ 7kJ/m²
- Connection is via a socket
- Ring hardness SN = 4KN/m² I = SN 8kN/m²
- Perforation surface: >50 cm²/m

Product description

Peštan polypropylene corrugated drainage pipes are made from standard PP corrugated pipes. The pipes are passing through perforation process in accordance with DIN 4262/1. PP pipes are lighter than PVC pipes for the same purpose, which provides

easier handling and installation. They have excellent chemical resistance to aggressive environment and the surrounding land. The smooth inner surface has a low coefficient of friction so that the pipes have very good hydraulic characteristics. They have excellent resistance to abrasion, mechanical and physical properties. Pipes are resistant to UV rays- they can stand outdoors for one year. They should be protected. It is necessary to take into account that during transport and installation pipes shouldn't be dragged over sharp edges, sharp edges can damage the pipe while they are impact-resistant to blunt instrument.

BOQ description

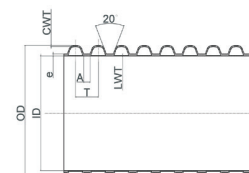
Two-layer corrugated pipes for drainage, which is made of polypropylene, with black outside layer and white inside layer, defined by inner diameter DN/ID, with extrusion welded socket and ring stiffness SN 4 KN/m² manufactured according to EN13476-3. Pipes shall be perforated in accordance with DIN4262 with angle of perforation of 120° (240°; 360°), and all in accordance with projected diameter and detailed specification.

Pipes need to be type „Peštan“ Arandelovac or other pipes of the equivalent characteristics.

The pipes shall be carefully laid on a sand bedding, with necessary geotextile filter layer mounted, and adjusted to the projected slope, without the horizontal and vertical change of grade.

Control of the grade is necessary to perform with geodetic instrument in presence of Supervisor Engineer's .

The work shall strictly comply in accordance with the technical regulation for the intended type of the pipe according to EN1610 and according to instruction of Supervisor Engineer's.



* The values in the table are mean values measured during continuous product quality control over a long period of time

CODE	DN		OD (mm)	ID (mm)	CWT	LWT	T	A	e
10702000	Ø140	SN4	160.5	140	0.7	0.7	17.4	3.5	1.1
10702020		SN8	160	139	0.7	0.8	17.4	3.5	1.1
10702001	Ø200	SN4	228	199	0.9	0.7	22	4.2	1.9
10702021		SN8	228.5	200	1	1.1	22	4.2	2
10702002	Ø250	SN4	284	249	1	0.6	26	4.5	2.2
10702022		SN8	283	248	1.2	1.4	26	4.5	2.3
10702003	Ø300	SN4	341	300	1.7	1.3	34.6	6.8	2.5
10702023		SN8	342	303	1.9	1.5	34.6	6.8	2.8
10702004	Ø400	SN4	455	400	1.8	1.2	50.8	11.9	3
10702024		SN8	454.5	401	2.1	2	50.8	11.9	3.2
10702005	Ø500	SN4	571	503	2	1.5	59	11	3.6
10702025		SN8	570	501	2.2	1.7	59	11	4.1
10702006	Ø600	SN4	686	607	2.4	2.5	70	14	3.7
10702026		SN8	685	607	2.7	2.7	70	14	4.5
10702007	Ø800	SN4	907	802	3.3	3	88.7	34.5	5.6
10702027		SN8	906	800	3.6	3.5	88.7	34.5	6.8

TYPES OF PP ID DRAINAGE PIPES

Double-layer corrugated PP pipe have been classified by the internal diameter of DN / ID (nominal diameter is the inner diameter/ inside-diameter). They are manufactured with integrated socket. They can be produced in a range from Ø140 to Ø800, of ring stiffness SN 4 and SN 8.

There are two types of drainage pipes made of polypropylene, defined through the inner diameter - ID pipes:

- KD - RIGID DRAINAGE PIPES (FULLY PERFORATED)
- KDK - RIGID DRAINAGE-SEWERAGE PIPES (PARTLY PERFORATED)

KD - RIGID DRAINAGE PIPES (FULLY PERFORATED)

KD pipes function is to assure the optimum drainage sub-degree and anti-freeze layer. This applies both during the construction and completion of the work site by entering the existing water and transporting it to the main dumping. The joints are impermeable to sand. Installation of rubber rings to such pipes is not necessary. 6 slots are standard per whole volume and they are distributed to 60°.



KDK - RIGID DRAINAGE-SEWERAGE PIPES (PARTLY PERFORATED)

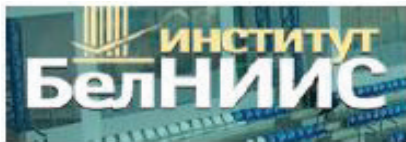
Partially perforated KDK solid drainage-sewerage pipes represent the ideal combination of perforated and collecting pipes. If requested, they must be able to collect and transport any surface water at short and long distances. Because of water transport, sockets are impermeable to water and sand. Rubber ring is inserted into the third channel of the corrugated pipe and socket, which is first lubricated, is wrapped around lubricated rubber. The pipes must be professionally installed respecting the guidelines for laying the pipeline given in EN1610 and DIN4033.



Technical Assistance

Our technical and engineering team is supported and advised by European institutes.

For more information about products please contact PEŠTAN technical support or regional salesman.



BELNIIS - Belarus



KIWA - Netherland



VUPS - Czech Republic



BELNIIS - Belarus



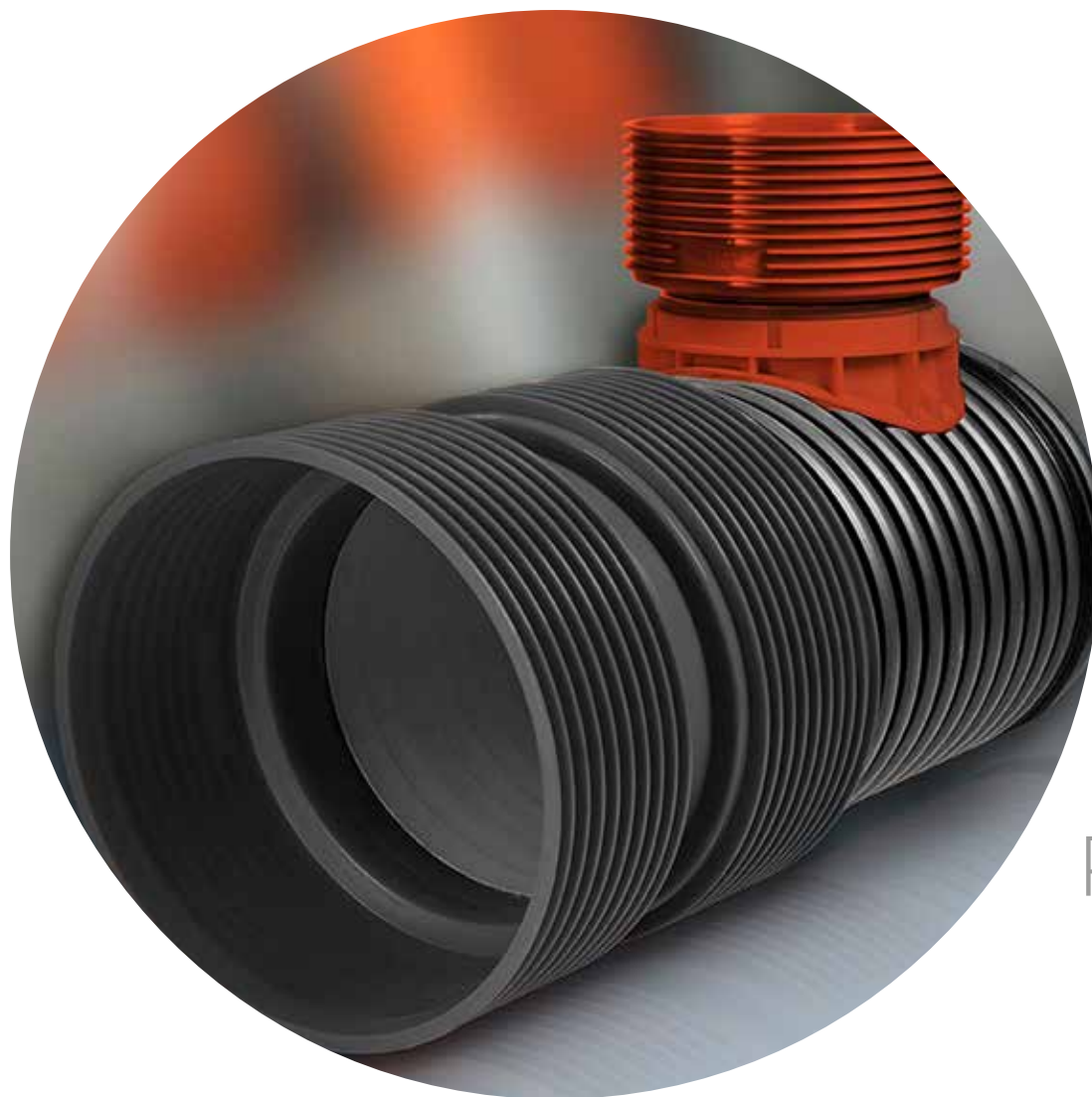
GOST R - Russia



IGH - Croatia



MPA - Germany



PP CORUGATED ID PIPES

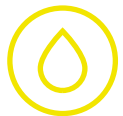


WE ARE

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

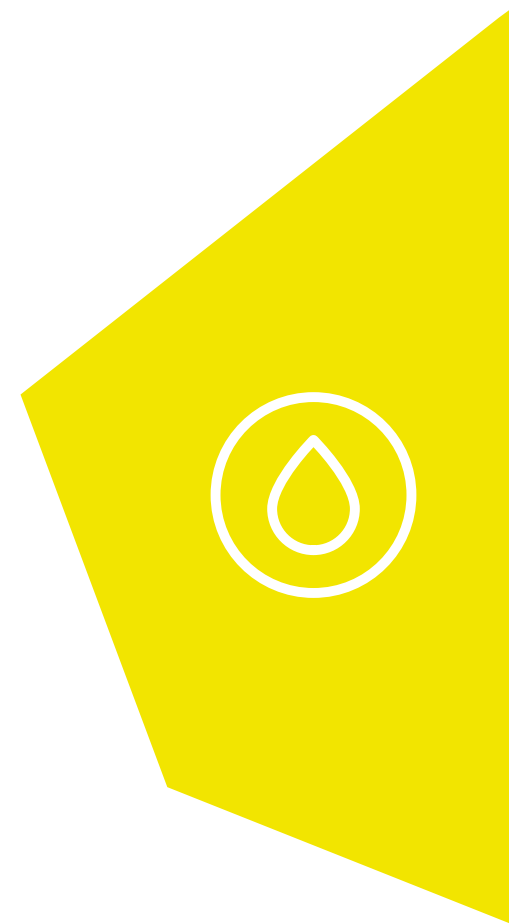
Over time, we introduced new materials (polypropylene and PVC) and expanded product range. Today, in our offer you may find more than 8.500 products, divided into two categories:



**PIPING
SOLUTIONS**



**BATHROOM
SOLUTIONS**

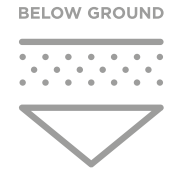


Edition 9



PP CORUGATED ID PIPES

Double layered corrugated PP ID pipes and fittings



PRODUCTION AND PURPOSES

Peštan Company supplies for its corrugated pipes only certified materials from top manufacturers.

These raw materials are satisfying properties of high impact resistance that have polypropylene copolymer PP-B. It is very important to make the correct choice of pipe by the type of fluid and by conditions of exploitation, in accordance with the characteristics of the material from which they are made of.

CHARACTERISTICS	VALUE	EN
Density	900kg/m ³	EN 1183
MFR	0,3gr/10 min(230/2,16)	EN1133
Modulus of elasticity	1500/2000MPa	EN527
Tensile strength at yield point	32 MPa	EN527
Impact toughness by Sharp with a comma	+23 °C 70kJ/m ²	EN179/1eA
	-23 °C 7 kJ/m ²	EN179/1eA



MATERIAL

Material properties and temperature application are given in the following table:

MATERIAL	MIN.	MAX.	SHORT-TERM
PP	-20 °C	60°C	95°C
PE-HD	-40°C	40°C	70°C
PVC-U	0°C	40°C	60°C

PRODUCTION

Pipes are manufactured in accordance with SRPS-EN13476 and EN1440

- Classified according to the inner light diameter DN/ID
- Life expectancy is 100 years
- Excellent hydraulic properties
- Excellent chemical stability
- High temperature stability at 60°C, short term up to 90°C
- High resistance to abrasion
- Pipes are lightweight

- Easy handling and installation
- Good mechanical properties
- Good impact resistance at low temperatures
- Good pipe flexibility
- Pipes can be completely recycled
- Pipes do not contain heavy metals or other disputed matter
- Friction coefficient is - $K_b = 0.25$ mm

The pipes are manufactured as class SN4 and SN8, pipes according to customer's request can be produced in class SN12 and SN16

* In addition to classes SN4 and SN8, pipes can also be produced in classes SN12 and SN16 upon customer request

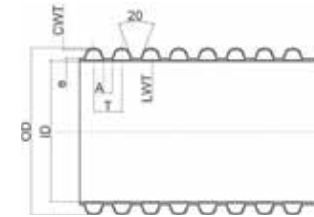
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10702027		SN8	906	800	3.6	3.5	88.7	34.5	6.8

CONNECTING METHODS

The pipes are produced in accordance with SRPS-EN13476 and EN1440

Connecting with angle fitting, connecting many pipelines with T branches and connecting over the saddle after grip (SAG).





PVC
DRAINAGE
PIPES

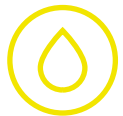


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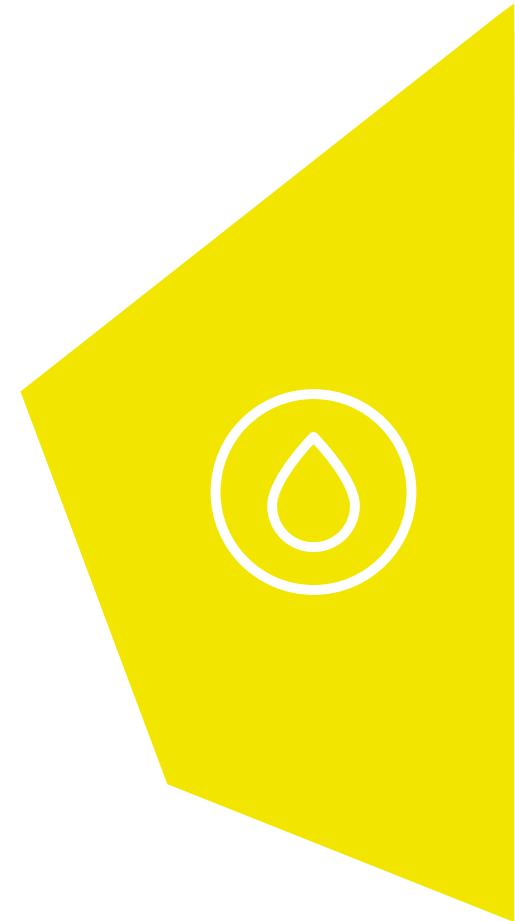
**DRAIN
SOLUTIONS**



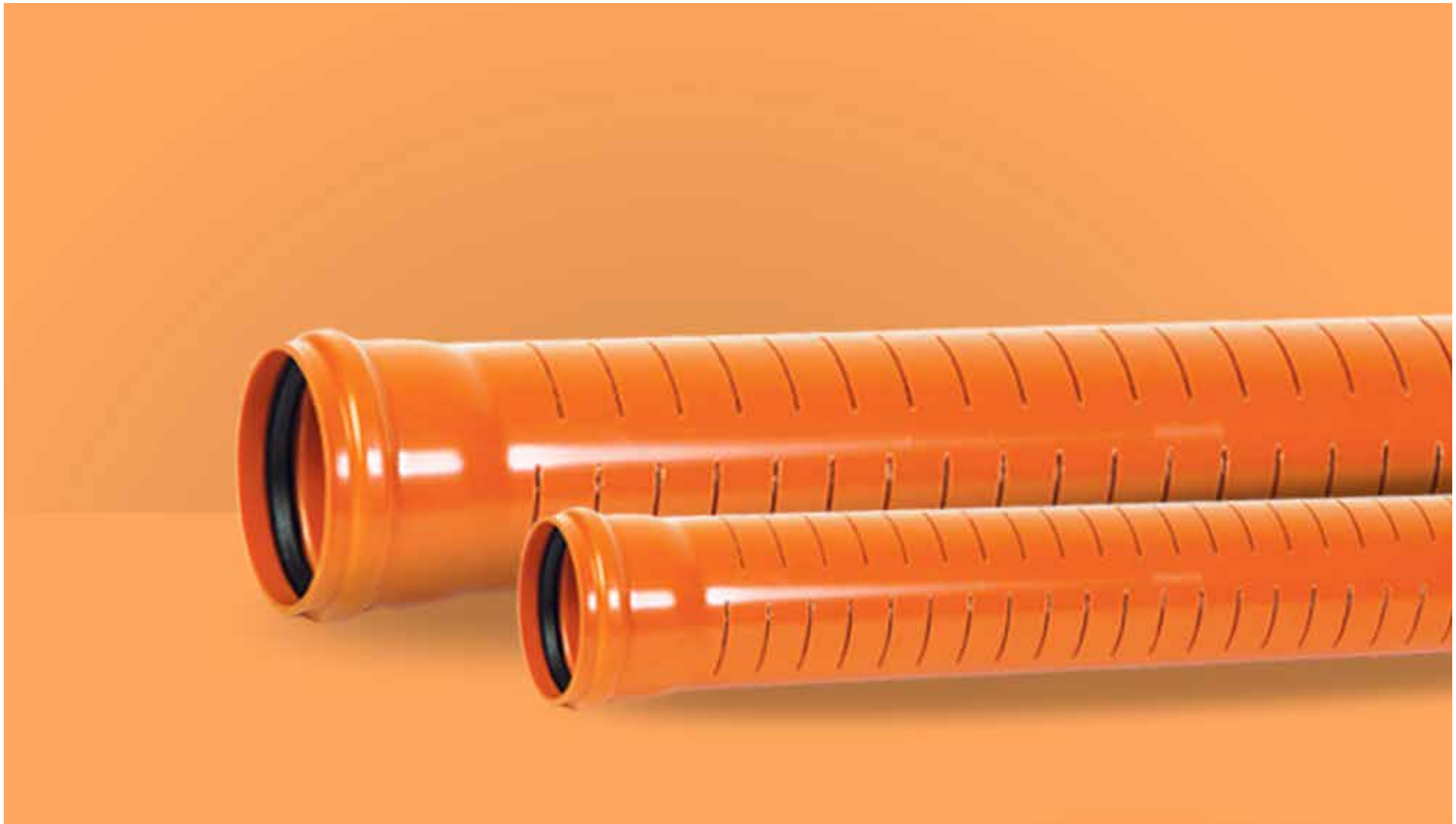
**AGRICULTURE
SOLUTIONS**



**HOUSEHOLD
SOLUTIONS**



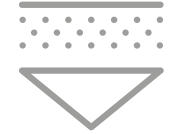
Edition 5



PVC DRAINAGE PIPES

PVC perforated drainage pipes

BELOW GROUND



KG (PVC) PERFORATED PIPES

Perforated PVC pipes for drainage have been manufactured according to DIN 4262 standard.

Assembly of the pipeline is extremely easy , pipes are connected to one another with fittings while complete seal is achieved with use of rubber bands. Maximum temperature of application is +60 °C. Pipes are resistant to salt water, alcohol, acids, alkalis, sulphates, aggressive gas and all kinds of detergents. On the other hand, they cannot be used for the transport of water which contains high percentage of benzene, benzine (petrol) or acetone.

ADVANTAGES & OWNER BENEFITS

- Very light material
- Simple and easy way of both transport and manipulation
- Fast and cheap assembling
- Pipe connections are resistant to water and other type of fluids
- They are resistant to corrosion in alkaline, acid or aggressive environment
- They are fine electrical insulator, and also resistant to mechanical impact
- Guaranteed life time of more than 50 years
- Connection with muffs and gaskets made of EPDM or rubber (EN 681)
- SRPS EN 1401 - compact; SRPS EN 13476 - Three-Layered

The method of producing perforations in the PVC pipes



SPECIFICATION OF MATERIAL



PVC-pipes and fittings are made from compound of non-softened PVC material with = 10MPa mixed with necessary additives.
Specific mass $1,38 \div 1,45 \text{ gr/cm}^3$

- Typical weight $1.38 \div 1.45 \text{ g / cm}^3$
- Tensile strenght 50-60 MPa
- Thermal stability: according to Vicat min 79°C
- Thermal conductivity $0,54 \text{ KJ/mh}^\circ\text{C}$
- Linear ratio of thermal extension $0,08 \text{ mm/m}^\circ\text{C}$
- Water absorption 4 mg/cm^2

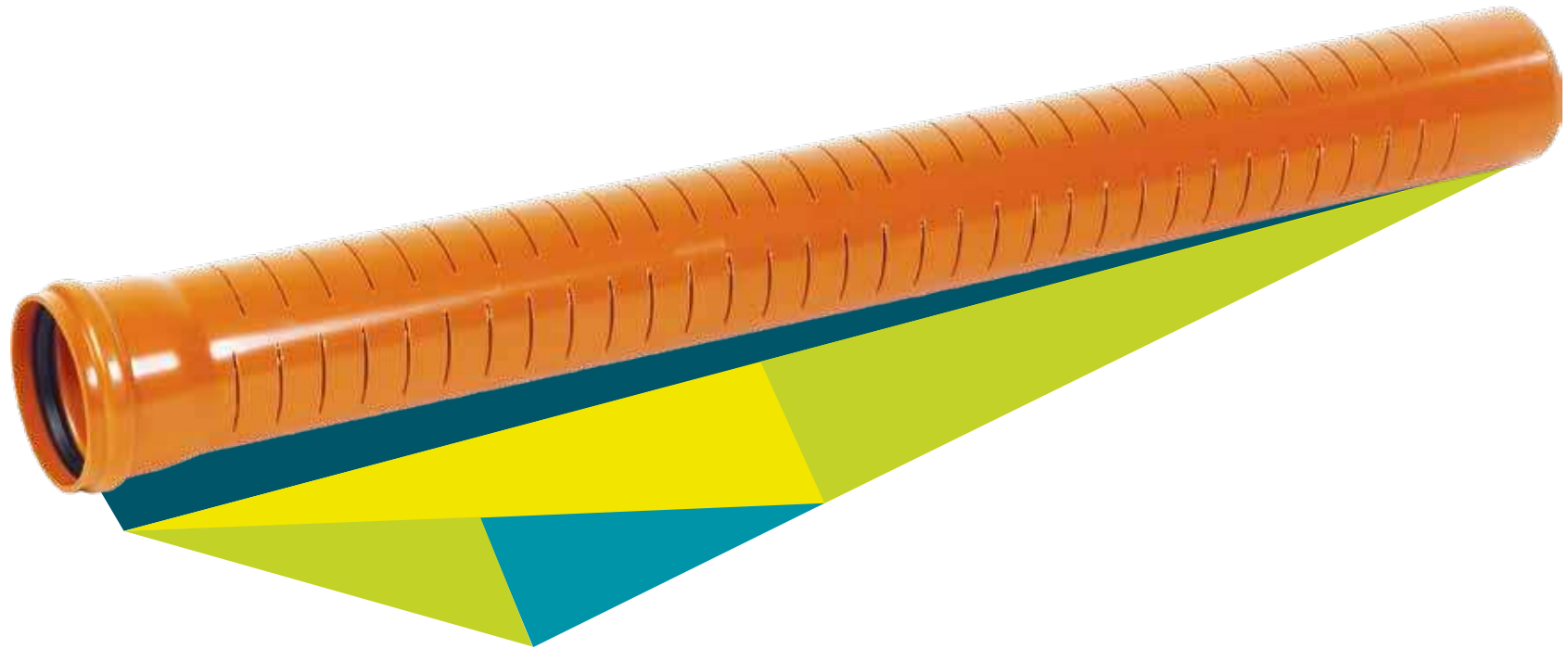
PIPE SERIES SPECIFICATION

Pipe series S-20 (SDR 41) SN 4 KN/m²

- Depth of pipe trench min 1,2 ÷ 6 m max
- Maximum loading max 18t/axel
- Ring stiffness SN 4 KN/m²
- Connection with EPDM or rubber (EN 681) seal in socket
- Length 1 ÷ 6m

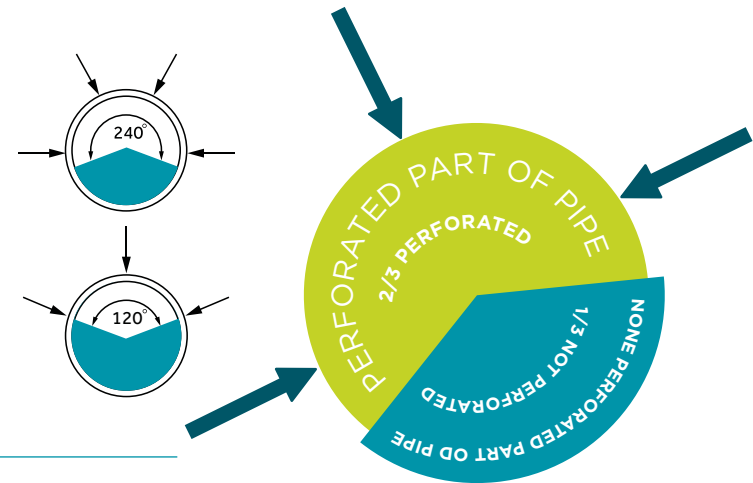
Pipe series S-16 (SDR 34) SN 8 KN/m²

- Depth of pipe trench min 1,2 ÷ 6 m max
- Maximum loading max 18t/axel
- Ring stiffness SN 8 KN/m²
- Connection with EPDM or rubber (EN 681) seal in socket
- Length 1 ÷ 6m

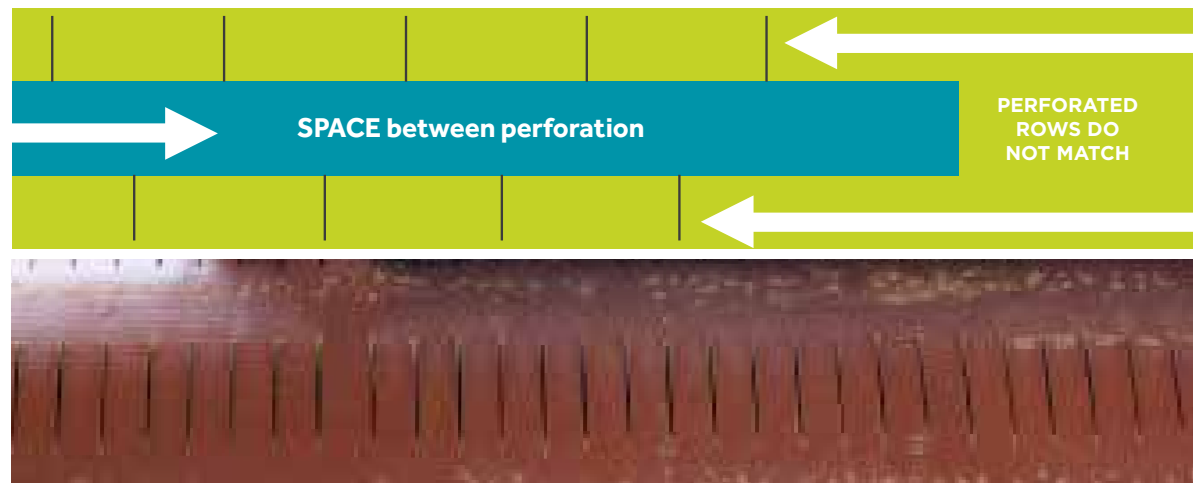


Ø 110 pipe - perforated in 3 rows
 Ø 125 pipe - perforated in 3 rows
 Ø 160 pipe - perforated in 3 rows
 Ø 200 pipe - perforated in 4 rows

Ø 250 pipe - perforated in 5 rows
 Ø 315 pipe - perforated in 6 rows
 Ø 400 pipe - perforated in 7 rows



ILLUSTRATED EXAMPLE OF PERFORATED PIPE



The slots are such as to allow unrestricted entry of water into the pipe. Their position is normal to the axis of the tube. Slot width in the perforated pipe is from 2.5 to 3mm. Area slit the water intake is greater than 50cm/m².

DISTANCE BETWEEN CUTS

From 15mm to 20mm on pipes Ø 110 and Ø 125
 From 20mm to 25mm on pipes Ø 160

From 25mm to 30mm on pipes Ø 200 and Ø 250
 From 35mm to 40mm on pipes Ø 315
 From 45mm to 50mm on pipes Ø 400

PIPES ACCORDING TO DIN 4262 STANDARD SHALL BE CATEGORIZED IN THE FOLLOWING WAYS ACCORDING TO THEIR ARRANGEMENT OF THE SLOTS AS SHOWN IN PICTURE :

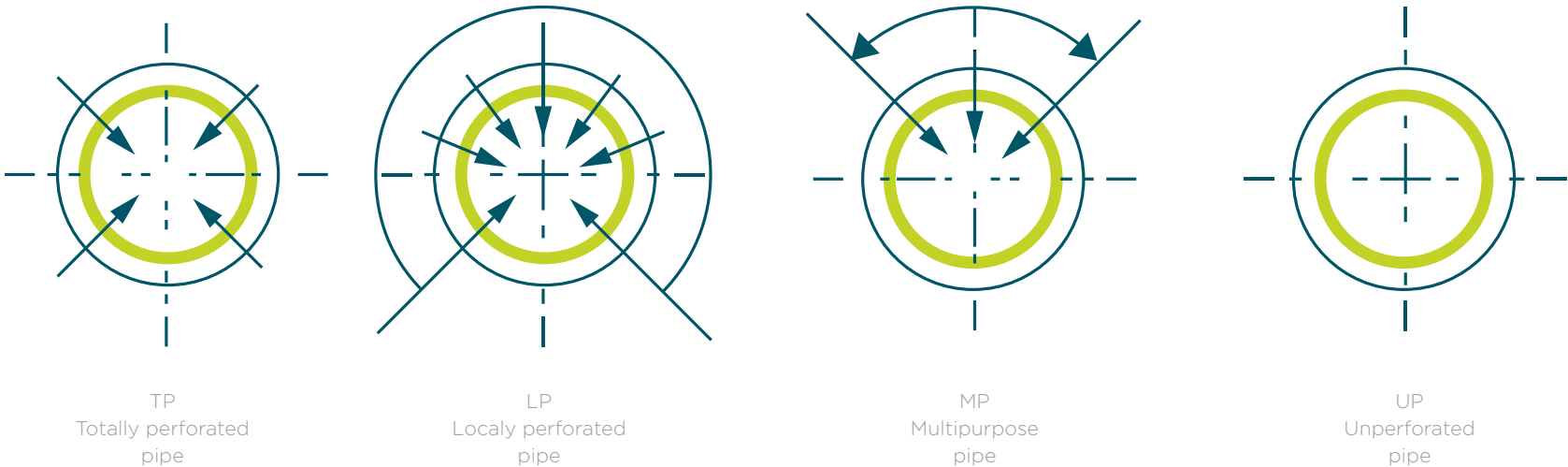
a) Totally perforated pipes (TP) are arranged uniformly over the entire circumference of the water inlet opening and having at least four rows of slots. They may be used in all sizes. Tubes of the type C1 and C2 are not produced as pipes.

b) Locally perforated pipes (LP) in which the water inlet opening is arranged over a range of about 220 degrees +/-10 at the pipe apex symmetrically to the vertical axis of the pipe, and the sole is unslotted. It must have at least three rows of slots. They are usually available in nominal sizes DN100 eingestetzt to DN200.

c) Multi purpose pipes (MP) in which the water inlet opening is arranged on top of the pipe symmetrically to the vertical pipe axis evenly over a range of maximum 120 degrees, have at least two rows of slots and have a watertight connection. The lower part of the MP-pipe can be used as transport pipe for all of the water. They are used in nominal diameters from DN200.

d) Unperforated transport pipe (UP)

THE INSTALLATION POSITION OF THE TP AND MP-PIPES MUST BE RECOGNIZABLE EITHER BY THE SHAPE OF THE PIPE OR BY A CROWN MARK.





HDPE OD DRAINAGE PIPES

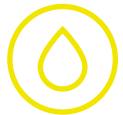


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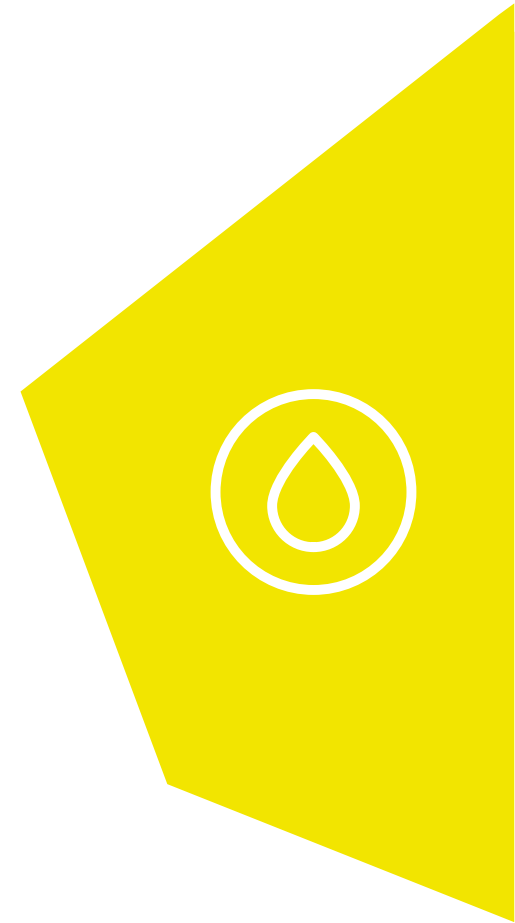
**DRAIN
SOLUTIONS**



**AGRICULTURE
SOLUTIONS**



**HOUSEHOLD
SOLUTIONS**



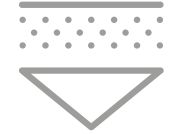
Edition 5



HDPE OD DRAINAGE PIPES

HDPE drainage corrugated pipes

BELOW GROUND



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.

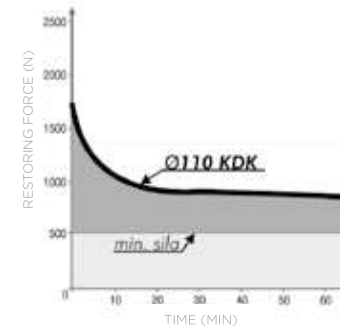
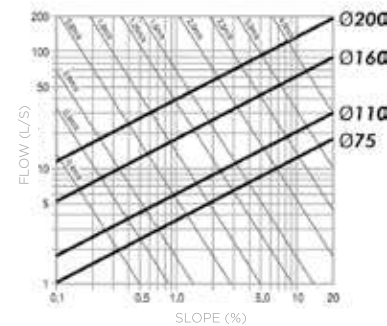
Corrugated pipes are characterized by their "sandwich" structure. Outer wall of the corrugated pipes provides high rigidity and stability of these pipes, while the smooth inner wall provides optimum water flow speed. Inner and outer wall are connected homogeneous. Water

HDPE DRAINAGE CORRUGATED PIPES FEATURES

- Material: HDPE
- Standard: DIN 4262/1
- Density: $>0,945\text{Kg/m}^3$
- MFI $190^\circ\text{C}/5\text{Kg}$ 0,35-1,3gr/10'
- Elastic modulus $>800\text{MPa}$
- Thermal expansion coefficients: $0,17\text{mm/m}^\circ\text{K}$
- Coefficients of thermal conductivity: $\text{na } 23^\circ\text{C} - 0,36-0,5\text{W/mk}$
- Surface Resistivity: $>10^{13}\Omega$
- Type of connection through socket without rubber
- Laying of pipelines and the use of HDPE pipelines is between -40°C to $+60^\circ\text{C}$.
- Ring stiffness $\text{SN}=4\text{KN/m}^2$ (EN ISO 9969)
- Standard color is black

HYDRAULIC CHARACTERISTICS

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



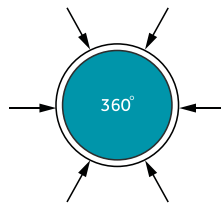
TYPES OF PIPES

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°.



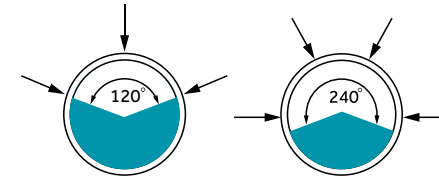
CODE	OUTTER DIAMETER (MM)	INNER DIAMETER (MM)	STANDARD GAP (MM)	SPACE FOR WATER INLET (CM ² /M)	STANDARD LENGTH (M)
10800000	Ø75	Ø62	1 - 1,4	>50	6
10800001	Ø90	Ø75	1 - 1,4	>50	6
10800002	Ø110	Ø92	1 - 1,4	>50	6
10800003	Ø125	Ø108	1 - 1,4	>50	6
10800004	Ø160	Ø138	1 - 1,4	>50	6
10800005	Ø200	Ø176	1 - 1,4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

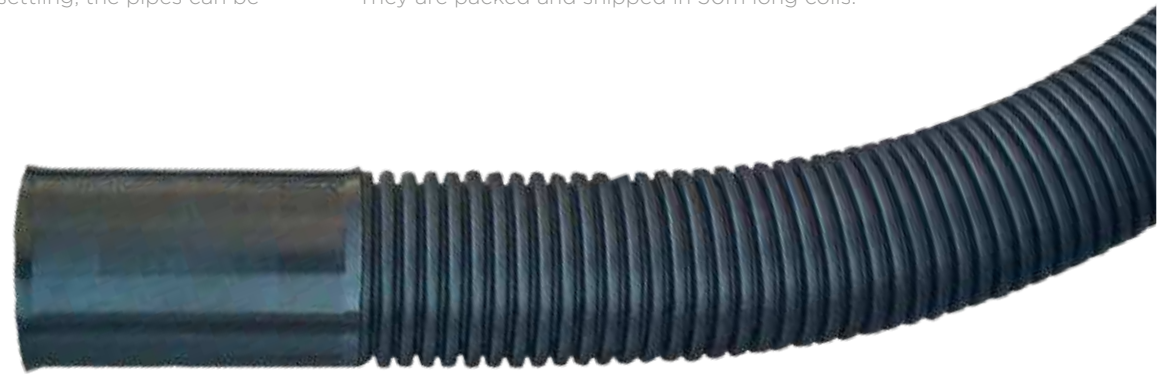
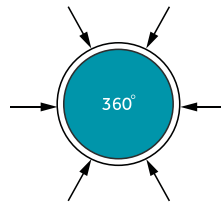
These pipes are light, highly flexible, resistant to UV light, solid and economical, easy to assemble. Due to special production process, the inner side of the pipe is smooth while the outer side is corrugated. The pipes are continued with coupling, which is impervious to sand. Application

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 peštan is able to produce rigid drainage – sewerage pipes (partially perforated) with bigger perforation $50\text{-}200\text{cm}^2/\text{m}$ for diametres 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



HDPE
CORUGATED
ID PIPES

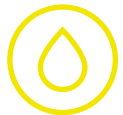


WE ARE

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

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

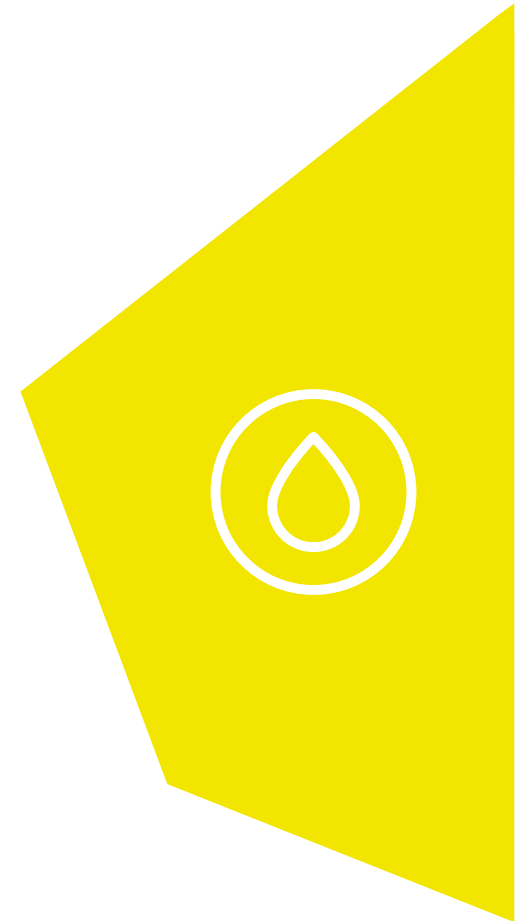
Over time, we introduced new materials (polypropylene and PVC) and expanded product range. Today, in our offer you may find more than 6500 products, divided into two categories:



**PIPING
SOLUTIONS**



**BATHROOM
SOLUTIONS**

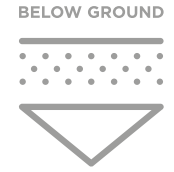


Edition 9



HDPE CORRUGATED ID PIPES

For domestic & street sewage systems

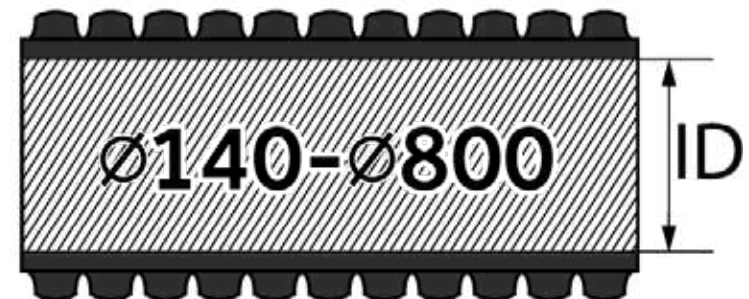


HDPE CORRUGATED PIPES FOR SEWERAGE SYSTEM

Connection method is via the socket with rubber which is inserted into the third channel of corrugated pipe between the ribs and the lubricated socket is pulled over the rubber on tube. Pipes can be shortened by ordinary knife or saw, and all the pieces of pipe can be used as extensions.

HDPE pipes are lighter than PVC pipes for the same purpose, allowing easier handling and installation, and they have excellent chemical resistance to aggressive environment and the surrounding soil. Laying and using of HDPE pipelines is between -40°C to $+60^{\circ}\text{C}$. The smooth inner surface has a low coefficient of friction so the pipes have very good hydraulic characteristics. They have excellent resistance to abrasion and excellent mechanical and physical properties.

Pipes are resistant to UV rays, and can stand in the open for an year. Beyond that period they should be protected. During transportation and installation, protection must be ensured by keeping the pipes away from sharp edges because they can damage the pipe while they are very resistant to the impacts with a blunt object. The pipes are certified by the Institute for Materials of Republic of Serbia.



FEATURES AND SPECIFICATIONS

- Material: PE-HD (polyethylene high-density)
- Pipes can be embed at a depth of at least 0.8 m to 8m max. Concrete protection is required above 0.8 m
- Quick and cheap installation
- Ring stiffness SN=4KN/m² and SN=8KN/m²
- Standard length is 6 or 12m, or coil 50m+100m
- Standard color is black and can be different by demand
- Standard packing:
Ø110-Ø200 Bar 6 and 12m, or coil 50 i 100m Ø250-Ø315 bar 6 and 12m

INSTALLATION

INSTALLATION OF PIPES

The pipes must be professionally installed respecting the appropriate guidelines specified by standard 1610 and DIN4033, which means that in an area of the pipeline from the bottom of the trench to at least 30cm above the vertex, following compression values should be achieved.

ACCORDING TO PROCTOR:

- All values should be proven during operation
- 97% density of shoveled land for non-bonding soil
- 95% density of unshoveled land for bonding soil

DN /ID (nominal diameter is inside diameter) double layer corrugated HDPE pipes are classified by the inner diameter of the pipe.

They are made without integrated socket, and connection is achieved through the sockets made of the same material.

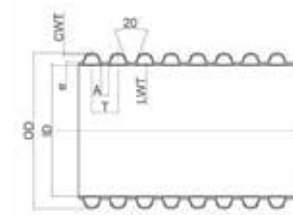
Range of production is from ø140-ø800 with ring stiffness of sn4 and sn8, and even stronger by special order.



ID SN4



ID SN8

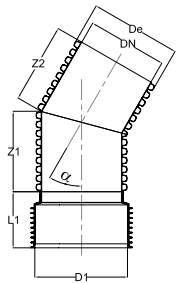


DN		OD (mm)	ID (mm)	CWT	LWT	T	A	e
Ø140	SN4	160.5	140	0.7	0.7	17.4	3.5	1.1
	SN8	160	139	0.7	0.8	17.4	3.5	1.1
Ø200	SN4	228	199	0.9	0.7	22	4.2	1.9
	SN8	228.5	200	1	1.1	22	4.2	2
Ø250	SN4	284	249	1	0.6	26	4.5	2.2
	SN8	283	248	1.2	1.4	26	4.5	2.3
Ø300	SN4	341	300	1.7	1.3	34.6	6.8	2.5
	SN8	342	303	1.9	1.5	34.6	6.8	2.8
Ø400	SN4	455	400	1.8	1.2	50.8	11.9	3
	SN8	454.5	401	2.1	2	50.8	11.9	3.2
Ø500	SN4	571	503	2	1.5	59	11	3.6
	SN8	570	501	2.2	1.7	59	11	4.1
Ø600	SN4	686	607	2.4	2.5	70	14	3.7
	SN8	685	607	2.7	2.7	70	14	4.5
Ø800	SN4	907	802	3.3	3	88.7	34.5	5.6
	SN8	906	800	3.6	3.5	88.7	34.5	6.8

* The values in the table are mean values measured during continuous product quality control over a long period of time

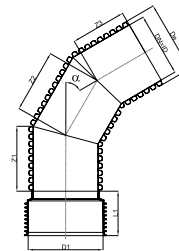
COUPLING ELEMENTS AND FITTINGS

An integral part of any piping system are the various joints, branches and manholes. Peštan products and the entire program of coupling elements and fittings. These include: Branches, Bends, Reducirs, Drain manholes, End caps, Couplings.



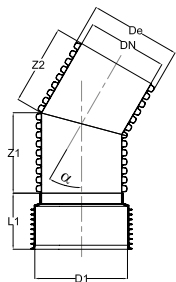
BEND 30°

DN	DE	D1	α	L1	Z1	Z2
140	160	162	30°	95	180	165
200	227	230	30°	140	200	180
250	283	286	30°	170	235	210
300	340	346	30°	180	280	250
400	453	458	30°	230	355	315
500	567	575	30°	255	475	425
600	680	686	30°	300	595	525



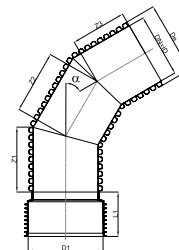
BEND 60°

DN	DE	D1	α	L1	Z1	Z2	Z3
140	160	162	60°	95	165	210	165
200	227	230	60°	140	180	225	180
250	283	286	60°	170	210	235	210
300	340	346	60°	180	250	285	250
400	453	458	60°	230	315	350	315
500	567	575	60°	255	420	475	420
600	680	686	60°	300	525	595	525



BEND 45°

DN	DE	D1	α	L1	Z1	Z2
140	160	162	45°	95	210	210
200	227	230	45°	140	225	225
250	283	286	45°	170	260	260
300	340	346	45°	180	315	315
400	453	458	45°	230	395	395
500	567	575	45°	255	530	530
600	680	686	45°	300	660	660

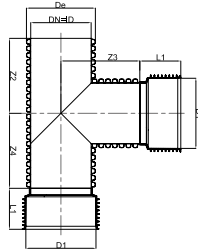


BEND 90°

DN	DE	D1	α	L1	Z1	Z2	Z3
140	160	162	90°	95	165	210	165
200	227	230	90°	140	180	225	180
250	283	286	90°	170	210	260	210
300	340	346	90°	180	250	315	250
400	453	458	90°	230	315	390	315
500	567	575	90°	255	425	530	425
600	680	686	90°	300	525	660	525

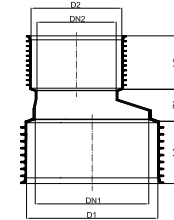
TEE

DN	DE	D1	L1	Z2	Z3	Z4
140	160	162	91	220	215	220
200	227	230	140	245	245	245
250	283	286	168	285	300	285
300	340	344	182	345	360	345
400	453	458	235	430	460	430
500	567	574	299	580	600	580
600	680	686	310	725	735	725



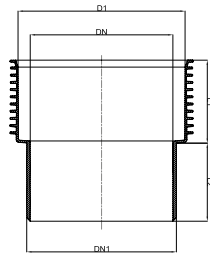
EXCENTRIC REDUCER

DN1	DN2	D1	D2	Z1	L1	L2
200	140	230	160	58	115	91
250	200	286	230	129	145	110
300	250	344	286	136	153	137
400	300	458	344	146	200	150
500	400	574	458	159	262	200
600	500	686	574	171	270	262



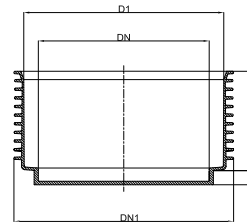
TRANSITION FROM CORRUGATED TO SMOOTH PIPE

DN	DN1	D1	L1	L2
140	160	162	90	90
200	200	230	115	120
250	250	286	145	143
300	315	346	153	155
400	400	459	235	200



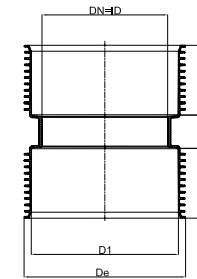
END CAP

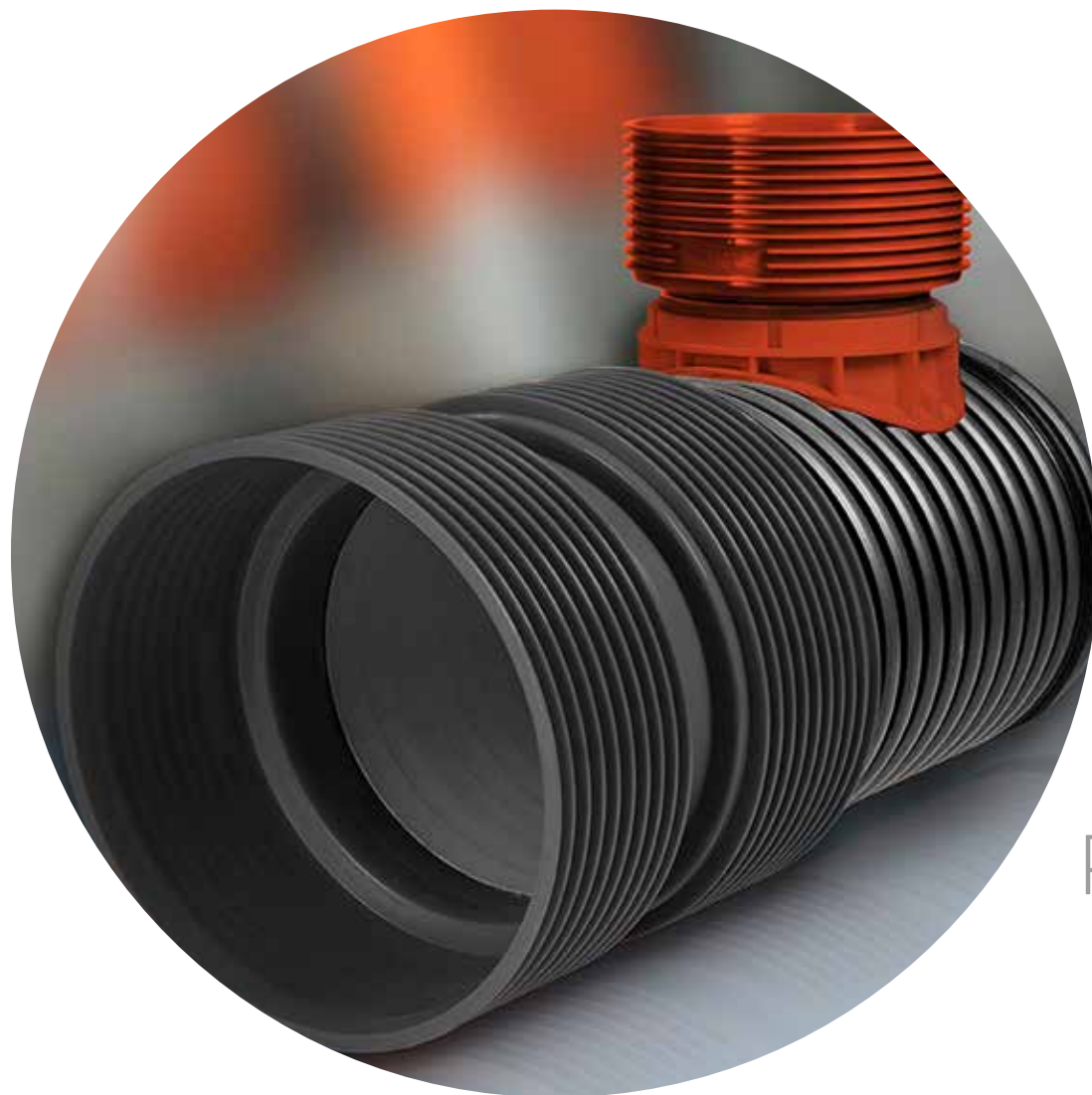
DN	DN1	D1	L1	L2
140	176	162	90	25.5
200	200	230	115	30
250	250	286	145	31
300	300	346	153	32
400	400	459	235	35
500	574	624	262	37
600	686	748	270	40



DOUBLE MUFF

DN	DE	D1	L1	Z1
140	176	162	90	51
200	252	230	115	60
250	312	286	145	62
300	375	346	153	64
400	498	459	200	70
500	624	575	262	74
600	748	690	270	80
800	960	919	325	90





PP CORUGATED ID PIPES

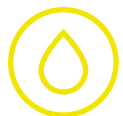


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Company was founded in 1989 and has been producing water pipes made of polyethylene.

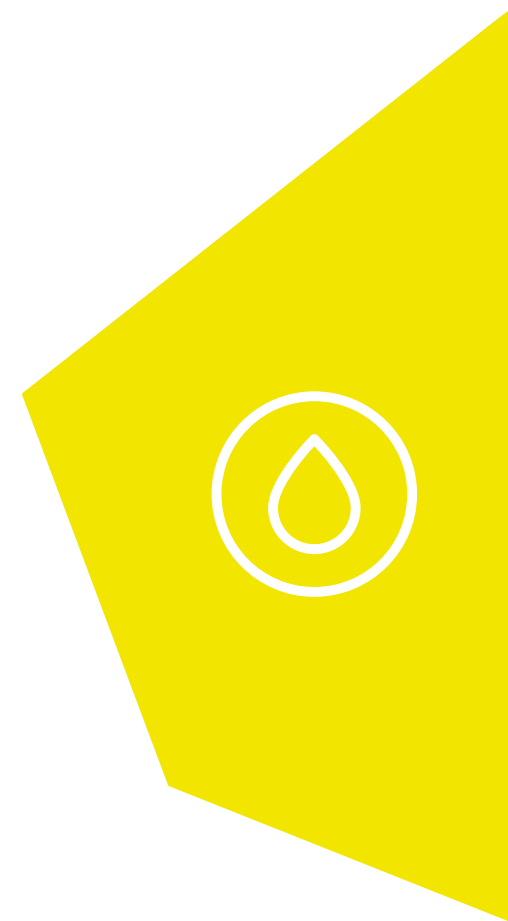
Over time, we introduced new materials (polypropylene and PVC) and expanded product range. Today, in our offer you may find more than 8.500 products, divided into two categories:



**PIPING
SOLUTIONS**



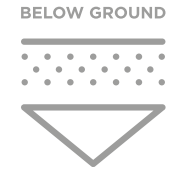
**BATHROOM
SOLUTIONS**



Edition 9



PP CORUGATED ID PIPES



Double layered corrugated PP ID pipes and fittings

PRODUCTION AND PURPOSES

Peštan Company supplies for its corrugated pipes only certified materials from top manufacturers.

These raw materials are satisfying properties of high impact resistance that have polypropylene copolymer PP-B. It is very important to make the correct choice of pipe by the type of fluid and by conditions of exploitation, in accordance with the characteristics of the material from which they are made of.

CHARACTERISTICS	VALUE	EN
Density	900kg/m ³	EN 1183
MFR	0,3gr/10 min(230/2,16)	EN1133
Modulus of elasticity	1500/2000MPa	EN527
Tensile strength at yield point	32 MPa	EN527
Impact toughness by Sharp with a comma	+23 °C 70kJ/m ²	EN179/1eA
	-23 °C 7 kJ/m ²	EN179/1eA



MATERIAL

Material properties and temperature application are given in the following table:

MATERIAL	MIN.	MAX.	SHORT-TERM
PP	-20 °C	60°C	95°C
PE-HD	-40°C	40°C	70°C
PVC-U	0°C	40°C	60°C

PRODUCTION

Pipes are manufactured in accordance with SRPS-EN13476 and EN1440

- Classified according to the inner light diameter DN/ID
- Life expectancy is 100 years
- Excellent hydraulic properties
- Excellent chemical stability
- High temperature stability at 60 °C, short term up to 90 °C
- High resistance to abrasion
- Pipes are lightweight

- Easy handling and installation
- Good mechanical properties
- Good impact resistance at low temperatures
- Good pipe flexibility
- Pipes can be completely recycled
- Pipes do not contain heavy metals or other disputed matter
- Friction coefficient is - $K_b = 0.25$ mm

The pipes are manufactured as class SN4 and SN8, pipes according to customer's request can be produced in class SN12 and SN16

* In addition to classes SN4 and SN8, pipes can also be produced in classes SN12 and SN16 upon customer request

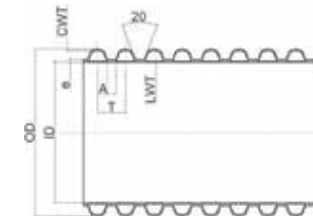
** The values in the table are mean values measured during continuous product quality control over a long period of time

CODE	DN		OD (mm)	ID (mm)	CWT	LWT	T	A	e
10702000	Ø140	SN4	160.5	140	0.7	0.7	17.4	3.5	1.1
10702020		SN8	160	139	0.7	0.8	17.4	3.5	1.1
10702001	Ø200	SN4	228	199	0.9	0.7	22	4.2	1.9
10702021		SN8	228.5	200	1	1.1	22	4.2	2
10702002	Ø250	SN4	284	249	1	0.6	26	4.5	2.2
10702022		SN8	283	248	1.2	1.4	26	4.5	2.3
10702003	Ø300	SN4	341	300	1.7	1.3	34.6	6.8	2.5
10702023		SN8	342	303	1.9	1.5	34.6	6.8	2.8
10702004	Ø400	SN4	455	400	1.8	1.2	50.8	11.9	3
10702024		SN8	454.5	401	2.1	2	50.8	11.9	3.2
10702005	Ø500	SN4	571	503	2	1.5	59	11	3.6
10702025		SN8	570	501	2.2	1.7	59	11	4.1
10702006	Ø600	SN4	686	607	2.4	2.5	70	14	3.7
10702026		SN8	685	607	2.7	2.7	70	14	4.5
10702007	Ø800	SN4	907	802	3.3	3	88.7	34.5	5.6
10702027		SN8	906	800	3.6	3.5	88.7	34.5	6.8

CONNECTING METHODS

The pipes are produced in accordance with SRPS-EN13476 and EN1440

Connecting with angle fitting, connecting many pipelines with T branches and connecting over the saddle after grip (SAG).



SADDLE AFTER GRIP (SAG)

Saddle after grip is new, modern product, with great performance.

It is intended for subsequent connection to an existing pipeline for smooth as well as corrugated pipes. Using this system, combined with a great range of Peštan fittings, production of new lines of home, street and drain sewer, as well as connecting to existing lines becomes satisfaction.

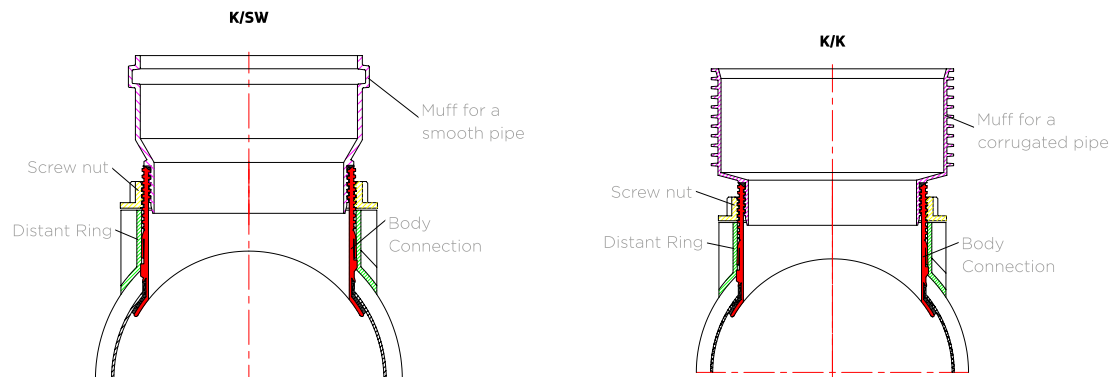
Peštan latest product main purpose is to be subsequently attached to an existing pipeline with a connection to smooth and corrugated pipes. The connection is safe and waterproof. It is made of ABS by injection molding technology.



SIZES

Sizes are given in the following table:

K/K CODE	K/SW CODE	
10799210	10799110	250/160
10799211	10799111	300/160
10799212	10799112	400/160
10799213	10799113	500/160
10799214	10799114	600/160
K/K CODE	K/SW CODE	
10799200	10799100	250/200
10799201	10799101	300/200
10799202	10799102	400/200
10799203	10799103	500/200
10799204	10799104	600/200



MONTAGE OF SAG THROUGH PHASES



1. Tools required



2. Determining position for montage



3. Drilling holes for the guided crown saw



4. Drilling holes with crown saw



5. Cleaning chips and forming a clear hole



6. Lubricating rubber bands on the body of sag



7. Inserting body of sag through pre-prepared opening and setting int in the appropriate position



8. setting the spacer ring



9. Tightening the sag



10. Lubricating appropriate connection of sag



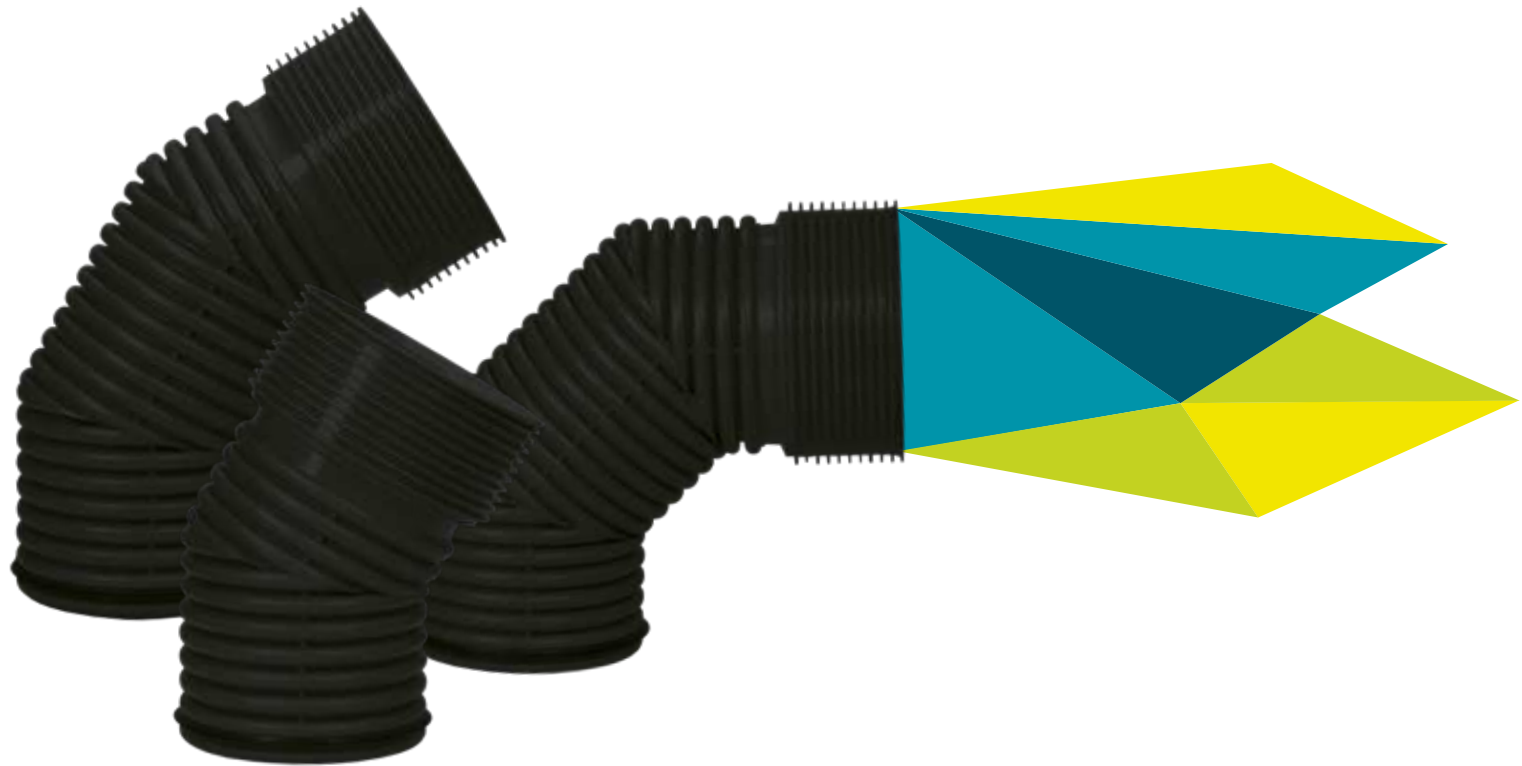
11. Setting the selected connection

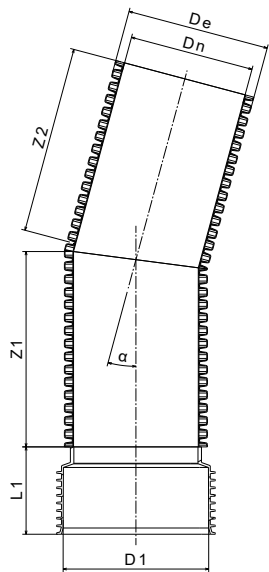


12. Final tightening of sag

BENDS 15°, 30°, 45°, 60°, 90°

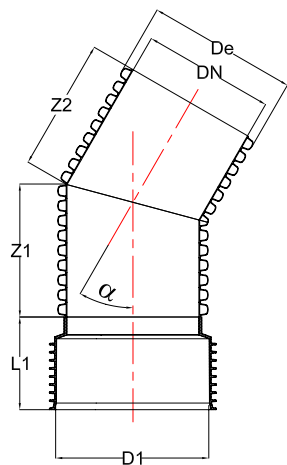
Bends are side fittings which main purpose is connecting pipes at certain angle in accordance with requirements (15°, 30°,45°,60°,90°). It is made in the technology of welding pipe segments and semi joints which has the function of integrated socket.





BEND 15°

CODE	DN	DE	D1	A	L1	Z1	Z2
10799240	140 F/M	160	162	30°	95	180	165
10799521	140 F/F	160	162	30°	95	180	165
10799241	200 F/M	227	230	30°	140	200	180
10799523	200 F/F	227	230	30°	140	200	180
10799242	250 F/M	283	286	30°	170	235	210
10799525	250 F/F	283	286	30°	170	235	210
10799243	300 F/M	340	346	30°	180	280	250
10799527	300 F/F	340	346	30°	180	280	250
10799244	400 F/M	453	458	30°	230	355	315
10799529	400 F/F	453	458	30°	230	355	315
10799245	500 F/M	567	575	30°	255	475	425
10799531	500 F/F	567	575	30°	255	475	425
10799246	600 F/M	680	686	30°	300	595	525
10799533	600 F/F	680	686	30°	300	595	525

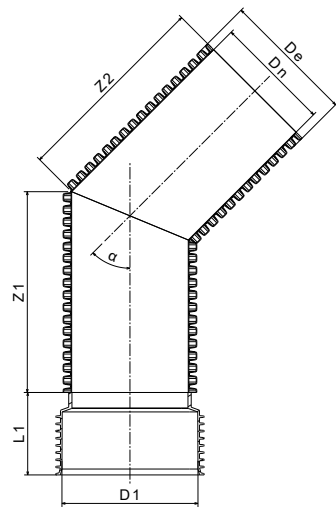


BEND 30°

CODE	DN	DE	D1	A	L1	Z1	Z2
10799250	140 F/M	160	162	30°	95	180	165
10799561	140 F/F	160	162	30°	95	180	165
10799251	200 F/M	227	230	30°	140	200	180
10799563	200 F/F	227	230	30°	140	200	180
10799252	250 F/M	283	286	30°	170	235	210
10799565	250 F/F	283	286	30°	170	235	210
10799253	300 F/M	340	346	30°	180	280	250
10799567	300 F/F	340	346	30°	180	280	250
10799254	400 F/M	453	458	30°	230	355	315
10799569	400 F/F	453	458	30°	230	355	315
10799255	500 F/M	567	575	30°	255	475	425
10799571	500 F/F	567	575	30°	255	475	425
10799256	600 F/M	680	686	30°	300	595	525
10799573	600 F/F	680	686	30°	300	595	525

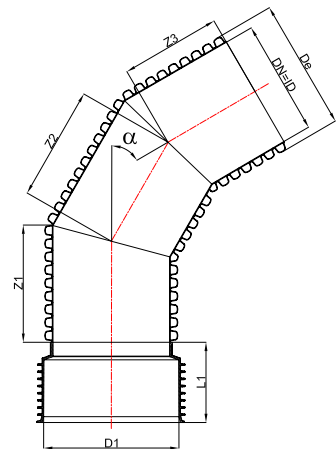
Measurements are given in millimeters (mm)

*F/M - female/male socket
F/F - female/female socket



BEND 45°

CODE	DN	DE	D1	A	L1	Z1	Z2
10799260	140 F/M	160	162	45°	95	210	210
10799586	140 F/F	160	162	45°	95	210	210
10799261	200 F/M	227	230	45°	140	225	225
10799588	200 F/F	227	230	45°	140	225	225
10799262	250 F/M	283	286	45°	170	260	260
10799590	250 F/F	283	286	45°	170	260	260
10799263	300 F/M	340	346	45°	180	315	315
10799592	300 F/F	340	346	45°	180	315	315
10799264	400 F/M	453	458	45°	230	395	395
10799594	400 F/F	453	458	45°	230	395	395
10799265	500 F/M	567	575	45°	255	530	530
10799596	500 F/F	567	575	45°	255	530	530
10799266	600 F/M	680	686	45°	300	660	660
10799598	600 F/F	680	686	45°	300	660	660

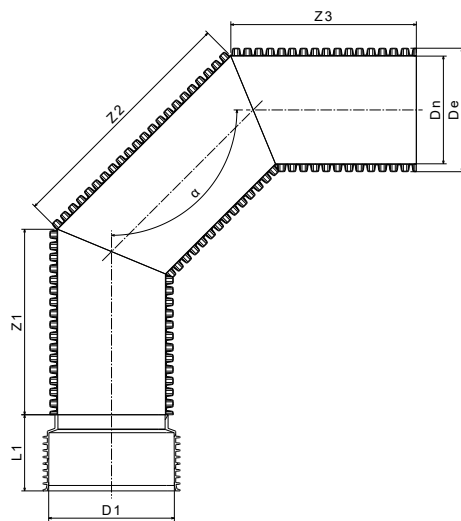


BEND 60°

CODE	DN	DE	D1	A	L1	Z1	Z2	Z3
10799270	140 F/M	160	162	60°	95	165	210	165
10799611	140 F/F	160	162	60°	95	165	210	165
10799271	200 F/M	227	230	60°	140	180	225	180
10799613	200 F/F	227	230	60°	140	180	225	180
10799272	250 F/M	283	286	60°	170	210	235	210
10799615	250 F/F	283	286	60°	170	210	235	210
10799273	300 F/M	340	346	60°	180	250	285	250
10799617	300 F/F	340	346	60°	180	250	285	250
10799274	400 F/M	453	458	60°	230	315	350	315
10799619	400 F/F	453	458	60°	230	315	350	315
10799275	500 F/M	567	575	60°	255	420	475	420
10799621	500 F/F	567	575	60°	255	420	475	420
10799276	600 F/M	680	686	60°	300	525	595	525
10799623	600 F/F	680	686	60°	300	525	595	525

Measurements are given in millimeters (mm)

*F/M - female/male socket
F/F - female/female socket



BEND 90°

CODE	DN	DE	D1	A	L1	Z1	Z2	Z3
10799280	140 F/M	160	162	90°	95	165	210	165
10799631	140 F/F	160	162	90°	95	165	210	165
10799281	200 F/M	227	230	90°	140	180	225	180
10799633	200 F/F	227	230	90°	140	180	225	180
10799282	250 F/M	283	286	90°	170	210	260	210
10799635	250 F/F	283	286	90°	170	210	260	210
10799283	300 F/M	340	346	90°	180	250	315	250
10799637	300 F/F	340	346	90°	180	250	315	250
10799284	400 F/M	453	458	90°	230	315	390	315
10799639	400 F/F	453	458	90°	230	315	390	315
10799285	500 F/M	567	575	90°	255	425	530	425
10799641	500 F/F	567	575	90°	255	425	530	425
10799286	600 F/M	680	686	90°	300	525	660	525
10799643	600 F/F	680	686	90°	300	525	660	525

Measurements are given in millimeters (mm)

*F/M - female/male socket
F/F - female/female socket

TEE

This fitting was obtained by welding pipe segments at an angle of 90° with the appropriate extension in the form of semi joint. Available for pipe diameters Ø140-Ø600.



K-BRANCH

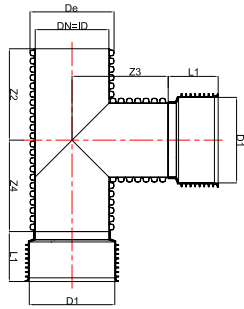
This fitting was obtained by welding pipe segments at an angle of 45° with the appropriate extension in the form of semi joint. Available for pipe diameters Ø140-Ø600.



EXCENTRIC REDUCER

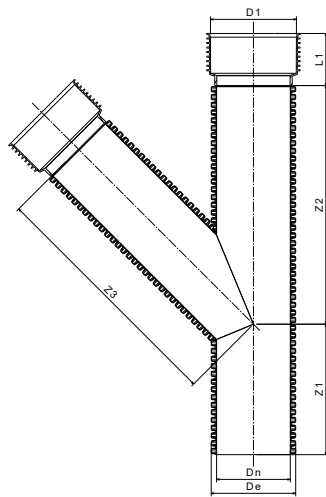
Fitting which main purpose is connecting pipes of different diameters. It is made of polypropylene injection molding technology. This fitting is available in sizes listed in the table.





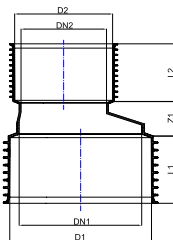
TEE

CODE	DN	DE	D1	L1	Z2	Z3	Z4
10799350	140 F/M	160	162	91	220	215	220
10799671	140 F/F	160	162	91	220	215	220
10799351	200 F/M	227	230	140	245	245	245
10799673	200 F/F	227	230	140	245	245	245
10799352	250 F/M	283	286	168	285	300	285
10799675	250 F/F	283	286	168	285	300	285
10799353	300 F/M	340	344	182	345	360	345
10799677	300 F/F	340	344	182	345	360	345
10799354	400 F/M	453	458	235	430	460	430
10799679	400 F/F	453	458	235	430	460	430
10799355	500 F/M	567	574	299	580	600	580
10799681	500 F/F	567	574	299	580	600	580
10799356	600 F/M	680	686	310	725	735	725
10799683	600 F/F	680	686	310	725	735	725



K-BRANCH

CODE	DN	DE	D1	L1	Z2	Z3	Z4
10799330	140 F/M	160	162	91	220	215	220
10799651	140 F/F	160	162	91	220	215	220
10799333	200 F/M	227	230	140	245	245	245
10799653	200 F/F	227	230	140	245	245	245
10799654	250 F/M	283	286	168	285	300	285
10799655	250 F/F	283	286	168	285	300	285
10799656	300 F/M	340	344	182	345	360	345
10799657	300 F/F	340	344	182	345	360	345
10799658	400 F/M	453	458	235	430	460	430
10799659	400 F/F	453	458	235	430	460	430
10799660	500 F/M	567	574	299	580	600	580
10799661	500 F/F	567	574	299	580	600	580
10799662	600 F/M	680	686	310	725	735	725
10799663	600 F/F	680	686	310	725	735	725



EXCENTRIC REDUCER

CODE	DN1	DN2	D1	D2	Z1	L1	L2
10799300	200	140	230	160	58	115	91
40000760	250	200	286	230	129	145	110
40000763	300	250	344	286	136	153	137
40000812	400	300	458	344	146	200	150
40000764	500	400	574	458	159	262	200
40000814	600	500	686	574	171	270	262

Measurements are given in millimeters (mm)

*F/M - female/male socket

F/F - female/female socket

TRANSITION FROM CORRUGATED TO SMOOTH PIPE

The purpose of this product is transition from smooth to corrugated pipe. It is made of polypropylene injection molding technology or welding. It is available in sizes that are given in the table.



END CAP

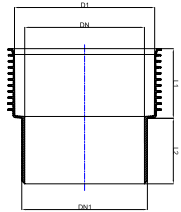
This product has a function of closing the pipes and fittings while installing pipes and different types of testing as well as for any other purpose. It is made in the technology of injection molding and welding polypropylene.



DOUBLE MUFF

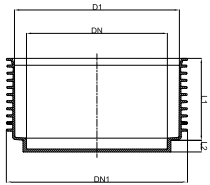
Fitting designed for linear connection of pipe with same diameter. The product is obtained by polypropylene injection molding.





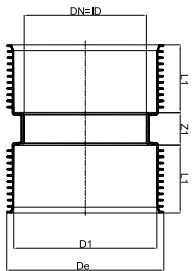
TRANSITION FROM CORRUGATED TO SMOOTH PIPE

CODE	DN	DN1	D1	L1	L2
10799500	140	160	162	90	90
40000771	200	200	230	115	120
40000772	250	250	286	145	143
40000773	300	315	346	153	155
40000774	400	400	459	235	200



END CAP

CODE	DN	DN1	D1	L1	L2
10799400	140	176	162	90	25,5
10799401	200	200	230	115	30
10799402	250	250	286	145	31
10799403	300	300	346	153	32
10799404	400	400	459	235	35
10799405	500	574	624	262	37
10799406	600	686	748	270	40



DOUBLE MUFF

CODE	DN	DE	D1	L1	Z1
10799000	140	176	162	90	51
10799001	200	252	230	115	60
10799002	250	312	286	145	62
10799003	300	375	346	153	64
10799004	400	498	459	200	70
10799005	500	624	575	262	74
10799006	600	748	690	270	80
40000792	800	960	919	325	90

Measurements are given in millimeters (mm)

HDPE Corrugated ID Pipes

Technical Datasheet

Application

Peštan HDPE corrugated ID pipes are used in civil engineering in drainage systems of all types of wastewater. The pipes are intended for installation below the ground surface and are used in all types of projects:

- Highways
- Airports
- Railways
- Street sewerage
- Drainage of wastewater and atmospheric water

Product description

Polyethylene HDPE pipes are sorted according to the inner diameter ID. They are made of high density polyethylene according to standard EN13476 and have high resistance to blows. They are connected with EPDM rubber sealing rings or SAG. The outer layer of the pipe is black, and the inner is white.



Mechanical and physical characteristics

They have good flexibility and good hydraulic properties. High impact resistance and long service life (about 100 years). The light weight of the pipe allows easy manipulation and installation. Good mechanical properties, good impact resistance even on low temperatures. They can be completely recycled.

Characteristic and technical data

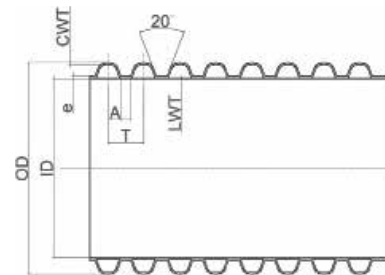
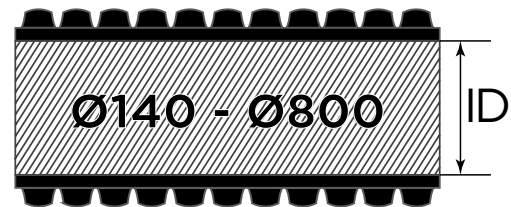
- Material: HDPE
- Standard: DIN 4262/1
- Density: $>0.945 \text{ kg/m}^3$
- Dispensing index: MFI 190 °C/5 Kg 0.35-1.3 gr/10'
- Elasticity modulus: $> 800 \text{ MPa}$
- Coefficient of linear thermal expansion: $0.17 \text{ mm/m } ^\circ\text{K}$
- Thermal conductivity coefficient: at 23 °C - $0.36\text{-}0.5 \text{ W/mk}$
- Surface electrical resistance: $> 10^{13} \Omega$
- The connection method is via a socket without an eraser
- Laying and use of HDPE pipeline is from $-40 \text{ }^\circ\text{C}$ to $+60 \text{ }^\circ\text{C}$.
- Ring strength SN = 4 kN/m^2 (EN ISO 9969)
- The standard color is BLACK

Chemical resistance

- * High chemical resistance to a large number of compounds.
- * Plastic pipes and fittings - Combined chemical resistance classification table ISO 10358.

Product Availability

The pipes are made in a standard length of 6 m. Diameter of $\varnothing 140$ to $\varnothing 800$ mm. All diameters can be made using strength classes rings SN4 and SN8, and on request we also produce SN12 and SN 16. We produce HDPE corrugated pipes for the complete program all necessary fittings as well as transition pieces for connection with pipes of other materials. Fitting: Arches (30 °, 45 °, 60 °, 90 °), SAG, end cap, eccentric reducer, transition from corrugated to smooth pipe, T-piece.



DN		OD (mm)	ID (mm)	CWT	LWT	T	A	e
Ø140	SN4	160.5	140	0.7	0.7	17.4	3.5	1.1
	SN8	160	139	0.7	0.8	17.4	3.5	1.1
Ø200	SN4	228	199	0.9	0.7	22	4.2	1.9
	SN8	228.5	200	1	1.1	22	4.2	2
Ø250	SN4	284	249	1	0.6	26	4.5	2.2
	SN8	283	248	1.2	1.4	26	4.5	2.3
Ø300	SN4	341	300	1.7	1.3	34.6	6.8	2.5
	SN8	342	303	1.9	1.5	34.6	6.8	2.8
Ø400	SN4	455	400	1.8	1.2	50.8	11.9	3
	SN8	454.5	401	2.1	2	50.8	11.9	3.2
Ø500	SN4	571	503	2	1.5	59	11	3.6
	SN8	570	501	2.2	1.7	59	11	4.1
Ø600	SN4	686	607	2.4	2.5	70	14	3.7
	SN8	685	607	2.7	2.7	70	14	4.5
Ø800	SN4	907	802	3.3	3	88.7	34.5	5.6
	SN8	906	800	3.6	3.5	88.7	34.5	6.8

*Vrednosti u tabeli su srednje vrednosti izmerene tokom kontinuirane kontrole kvaliteta proizvoda u dužem vremenskom periodu

Technical Assistance

Our technical and engineering team is supported and advised by European institutes. For more information about products please contact PEŠTAN technical support or regional salesman.



BELNIIS - Belarus



KIWA - Netherland



VUPS - Czech Republic



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IMS - Serbia



GOST R - Russia



MPA - Germany



IGH - Croatia

PP ID CORRUGATED DRAINAGE PIPES

Tehnički list

Applications

Bearing in mind the need for drainage of excess water from the soil, Peštan included corrugated drainage and polypropylene (PP) pipes in its production portfolio. Peštan provides a large range of diameters in accordance with DIN 4262/1. These pipes, thanks to their large hydraulic capacity and a wide range of diameters, are fully able to respond to any request and provide a reliable and long-term drainage of ground.

Mechanical and physical characteristics

- Material: PP-B copolymer
- Fast and inexpensive mounting
- Standard: DIN 4262/1
- Density: > 0,900 Kg/m³
- Pour Index: MFR 230 °C/2.16 0,30 gr/10'
- Modulus of elasticity: MPa 1500/2000
- Tensile strength: 32 Mpa
- Impact strength according to Charpy: at 23 °C ≈ 70kJ/m²; at -23 °C ≈ 7kJ/m²
- Connection is via a socket
- Ring hardness SN = 4KN/m² I = SN 8kN/m²
- Perforation surface: >50 cm²/m

Product description

Peštan polypropylene corrugated drainage pipes are made from standard PP corrugated pipes. The pipes are passing through perforation process in accordance with DIN 4262/1. PP pipes are lighter than PVC pipes for the same purpose, which provides

easier handling and installation. They have excellent chemical resistance to aggressive environment and the surrounding land. The smooth inner surface has a low coefficient of friction so that the pipes have very good hydraulic characteristics. They have excellent resistance to abrasion, mechanical and physical properties. Pipes are resistant to UV rays- they can stand outdoors for one year. They should be protected. It is necessary to take into account that during transport and installation pipes shouldn't be dragged over sharp edges, sharp edges can damage the pipe while they are impact-resistant to blunt instrument.

BOQ description

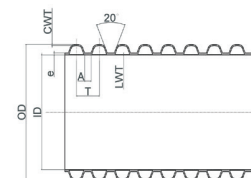
Two-layer corrugated pipes for drainage, which is made of polypropylene, with black outside layer and white inside layer, defined by inner diameter DN/ID, with extrusion welded socket and ring stiffness SN 4 KN/m² manufactured according to EN13476-3. Pipes shall be perforated in accordance with DIN4262 with angle of perforation of 120° (240°; 360°), and all in accordance with projected diameter and detailed specification.

Pipes need to be type „Peštan“ Arandelovac or other pipes of the equivalent characteristics.

The pipes shall be carefully laid on a sand bedding, with necessary geotextile filter layer mounted, and adjusted to the projected slope, without the horizontal and vertical change of grade.

Control of the grade is necessary to perform with geodetic instrument in presence of Supervisor Engineer's.

The work shall strictly comply in accordance with the technical regulation for the intended type of the pipe according to EN1610 and according to instruction of Supervisor Engineer's.



* The values in the table are mean values measured during continuous product quality control over a long period of time

CODE	DN		OD (mm)	ID (mm)	CWT	LWT	T	A	e
10702000	Ø140	SN4	160.5	140	0.7	0.7	17.4	3.5	1.1
10702020		SN8	160	139	0.7	0.8	17.4	3.5	1.1
10702001	Ø200	SN4	228	199	0.9	0.7	22	4.2	1.9
10702021		SN8	228.5	200	1	1.1	22	4.2	2
10702002	Ø250	SN4	284	249	1	0.6	26	4.5	2.2
10702022		SN8	283	248	1.2	1.4	26	4.5	2.3
10702003	Ø300	SN4	341	300	1.7	1.3	34.6	6.8	2.5
10702023		SN8	342	303	1.9	1.5	34.6	6.8	2.8
10702004	Ø400	SN4	455	400	1.8	1.2	50.8	11.9	3
10702024		SN8	454.5	401	2.1	2	50.8	11.9	3.2
10702005	Ø500	SN4	571	503	2	1.5	59	11	3.6
10702025		SN8	570	501	2.2	1.7	59	11	4.1
10702006	Ø600	SN4	686	607	2.4	2.5	70	14	3.7
10702026		SN8	685	607	2.7	2.7	70	14	4.5
10702007	Ø800	SN4	907	802	3.3	3	88.7	34.5	5.6
10702027		SN8	906	800	3.6	3.5	88.7	34.5	6.8

TYPES OF PP ID DRAINAGE PIPES

Double-layer corrugated PP pipe have been classified by the internal diameter of DN / ID (nominal diameter is the inner diameter/ inside-diameter). They are manufactured with integrated socket. They can be produced in a range from Ø140 to Ø800, of ring stiffness SN 4 and SN 8.

There are two types of drainage pipes made of polypropylene, defined through the inner diameter - ID pipes:

- KD - RIGID DRAINAGE PIPES (FULLY PERFORATED)
- KDK - RIGID DRAINAGE-SEWERAGE PIPES (PARTLY PERFORATED)

KD - RIGID DRAINAGE PIPES (FULLY PERFORATED)

KD pipes function is to assure the optimum drainage sub-degree and anti-freeze layer. This applies both during the construction and completion of the work site by entering the existing water and transporting it to the main dumping. The joints are impermeable to sand. Installation of rubber rings to such pipes is not necessary. 6 slots are standard per whole volume and they are distributed to 60°.



KDK - RIGID DRAINAGE-SEWERAGE PIPES (PARTLY PERFORATED)

Partially perforated KDK solid drainage-sewerage pipes represent the ideal combination of perforated and collecting pipes. If requested, they must be able to collect and transport any surface water at short and long distances. Because of water transport, sockets are impermeable to water and sand. Rubber ring is inserted into the third channel of the corrugated pipe and socket, which is first lubricated, is wrapped around lubricated rubber. The pipes must be professionally installed respecting the guidelines for laying the pipeline given in EN1610 and DIN4033.



Technical Assistance

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Киров (8332)68-02-04
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Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

почта: pad@nt-rt.ru || сайт: <https://pestan.nt-rt.ru/>