

Трубы канализационные для монтажа под землей PP STRONG, PVC Ultra

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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PP Strong Pipes

Technical Datasheet

Application

PP STRONG pipes are intended for areas with great static pressure, such as airports, highways and railroads. PP STRONG system is universal and can be used for removing all types of waste waters in low construction. Use in civil engineering for waste water.

Application Areas:

1. Municipal sewage;
 - New Construction;
 - Replacement of the existing sewerage network
2. Chemical and mechanical industry
 - Excellent chemical resistance (ph value 2-12)
 - Suitable for use in heavy traffic load
3. Food Industry
 - High resistance to temperature and resistance to cyclic work
 - Resistance to chemical cleaners
4. Roads (highways, main roads, airports...)
 - Resistance to high static and dynamic loads
 - High obliged cruelty

5. Water Protection Zone II and III
6. Special applications

Product description

PP Strong is a system of sewer pipes and fittings for heavy loads. It is made of polypropylene. It is made as a homogeneous full-wall pipe without mineral additives with an extremely smooth inner surface. Pipe are made according to standard EN 1852. Pipes are joined using connecting elements (fittings), while the waterproofness of the connection is ensured by rubber rings (safety lock) made of EPDM rubber with plastic reinforcement. Pipe is made in brown color.

Mechanical and physical characteristics

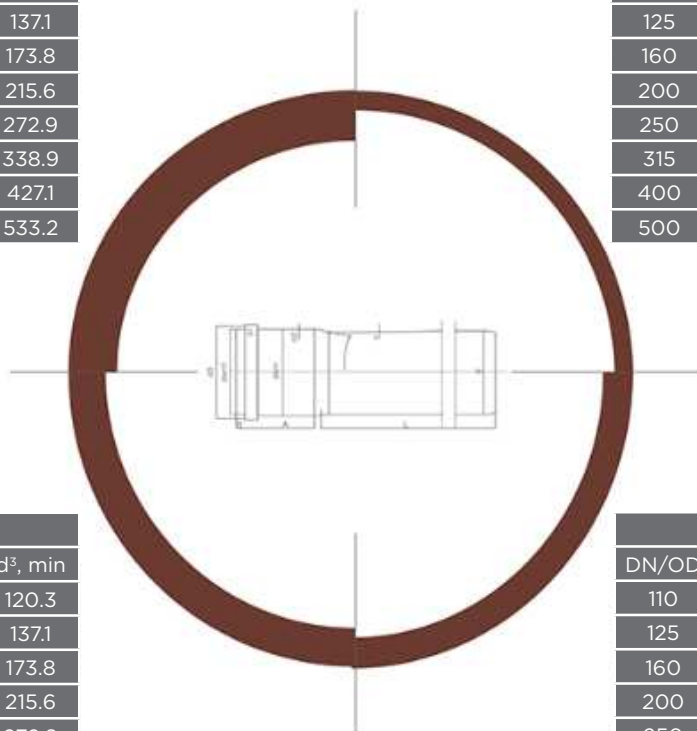
High static and dynamic loads, high impact resistance, increased ring stiffness, increased longitudinal stiffness, long service life.

SDR 24,6 SN12

DN/OD	e min	A min	B min	d ³ , min
110	4.5	40	6	120.3
125	5.1	43	7	137.1
160	6.5	50	9	173.8
200	8.1	58	12	215.6
250	10.2	68	18	272.9
315	12.8	81	20	338.9
400	16.3	98	24	427.1
500	20.3	118	28	533.2

SDR 33 SN 4

DN/OD	e min	A min	B min	d ³ , min
110	3.4	40	6	120.3
125	3.9	43	7	137.1
160	4.9	50	9	173.8
200	6.2	58	12	215.6
250	7.7	68	18	272.9
315	9.7	81	20	338.9
400	12.3	98	24	427.1
500	15.3	118	28	533.2



SDR 26 SN10

DN/OD	e min	A min	B min	d ³ , min
110	4.2	40	6	120.3
125	4.8	43	7	137.1
160	6.2	50	9	173.8
200	7.7	58	12	215.6
250	9.6	68	18	272.9
315	12.81	81	20	338.9
400	15.4	98	24	427.1
500	19.2	118	28	533.2

SDR 29 SN 8

DN/OD	e min	A min	B min	d ³ , min
110	3.8	40	6	120.3
125	4.3	43	7	137.1
160	5.5	50	9	173.8
200	6.9	58	12	215.6
250	8.6	68	18	272.9
315	10.8	81	20	338.9
400	13.7	98	24	427.1
500	17.1	118	28	533.2

Material characteristics	Value	Standard
Density	900 kg/m ³	ISO 1183
MFR (230 °C/2,16 kg)	≤1,5 g/10 min	ISO 1183
Internal pressure test (80 °C, 4,2 MPa)	» 140 h	ISO 1167-1
Internal pressure test (95 °C, 2,5 MPa)	» 1000 h	ISO 1167-2
Rensile Strain at Yield (50 mm/min)	6,5 %/33 MPa	ISO 527-1 ISO 527±2
Charpy Impact Strength (23 °C/-20 °C)	29/2 kJ/m ²	ISO 179/1 eA
Ring stiffness, SN	4, 8, 10, 12, 16	ISO 9969
Chemical resistance	2... 12 pH	ISO/TR 10 358
Temperature resistance (short term/longterm)	90/60 °C	
Temperature conductivity	0,2 W/mK	DIN 52612
Linear coefficient of stretching	0,14 mm/Km	DIN 52328
Module of elasticity	2000 MPa	ISO 178
Connection technique	Socket and rubber	
Rubber ring	Rubber ring with plastic strengthened in different color and with closing surfaces	

Chemical resistance

High chemical resistance to a large number of compounds (pH 1 - pH 13).

*Plastic pipes and fittings - Combined chemical-resistance classification table ISO/TR 10358.

Product Availability

Available in standard lengths: 1, 2, 3, 4, 5, 6 m.

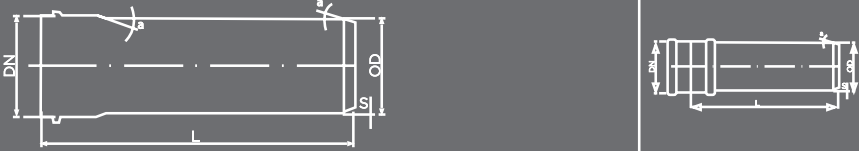
Available in non-standard lengths: 12, 13.5, 16 m.

Diameter from ø110 to ø500 mm.

Ring stiffness of the pipe: SN8, SN10, SN12, SN16.

A wide range of fittings (from DN110 to DN630): knees, T-branches, K-branches, reducers, couplings.





SN 4			Sn 8			Sn 10			Sn 12			SN 16		
DN (mm)	S (mm)	L (mm)	DN (mm)	S (mm)	L (mm)	DN (mm)	S (mm)	L (mm)	DN (mm)	S (mm)	L (mm)	DN (mm)	S (mm)	L (mm)
110	3.4	1000	110	3.8	1000	110	4.2	1000	110	4.5	1000	110	5	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
125	3.9	1000	125	4.3	1000	125	4.8	1000	125	5.1	1000	125	5.7	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
160	4.9	1000	160	5.5	1000	160	6.2	1000	160	6.5	1000	160	7.3	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
200	6.2	1000	200	6.9	1000	200	7.7	1000	200	8.1	1000	200	9.1	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
250	7.7	1000	250	8.6	1000	250	9.6	1000	250	10.2	1000	250	11.4	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
315	9.7	1000	315	10.8	1000	315	12.1	1000	315	12.8	1000	315	14.4	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
400	12.3	1000	400	13.7	1000	400	15.4	1000	400	16.3	1000	400	18.2	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
500	15.3	1000	500	17.1	1000	500	19.2	1000	500	20.3	1000	500	22.8	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000

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



IGH - Croatia



MPA - Germany



VUPS - Czech Republic



BELNIIS - Belarus



IMS - Serbia



GOST R - Russia

CHARACTERISTICS:

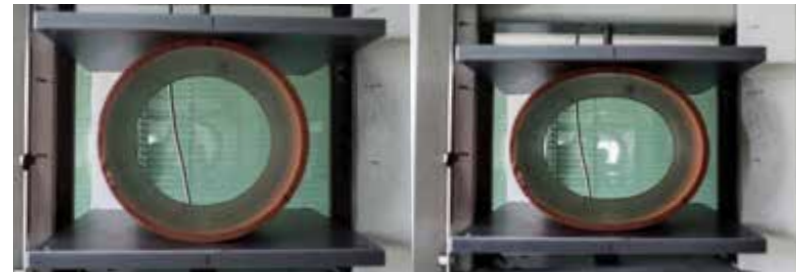
- Absolute impermeability
- Minimal wasting
- Stable functioning during the whole life span of the pipe
- Higher ring stiffness
- Higher longitudinal rigidity
- Available pipe with coupling or with integrated socket
- High ring flexibility

ADVANTAGES:

- Wide range of fittings
- Great resistance to static and dynamic pressures
- Great resistance to work damage
- High impact resistance
- Without mineral additives
- Stability to chemical and thermal pressure
- Very tight lock in connections
- Very long term life

FIELDS OF APPLIANCE:

- Communal drainage
 - New buildings or replacements of old sewage
- Chemical and machine industry
 - Excellent chemical stability (ph 2-12)
- Food industry
 - Great stability to temperatures and cycle work resistance
 - Stability to cleaning products
- Roads
 - Great resistance to static and dynamic loads and pressures



Pipes withstand deformations up to 30% to inner diameter. According to EN ISO 13968



PP STRONG pipes

Peštan PP STRONG pipes and fittings are produced in:

-Diameters Ø110 to Ø500

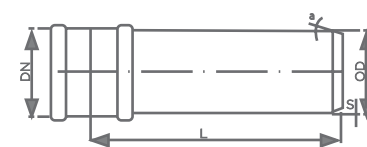
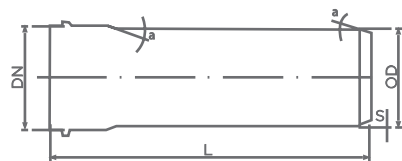
-Ring stiffnesses SN4, SN8, SN10, SN12, SN16 in accordance EN1852

PP STRONG pipes are produced in standard lengths 1 - 6m.

PP STRONG in classes SN4, SN8, SN10 and SN12 are produced with socket, while class SN16 are produced with integrated coupling.

PP STRONG coupling stiffness class is SN16 and as such resistant to big static pressures.

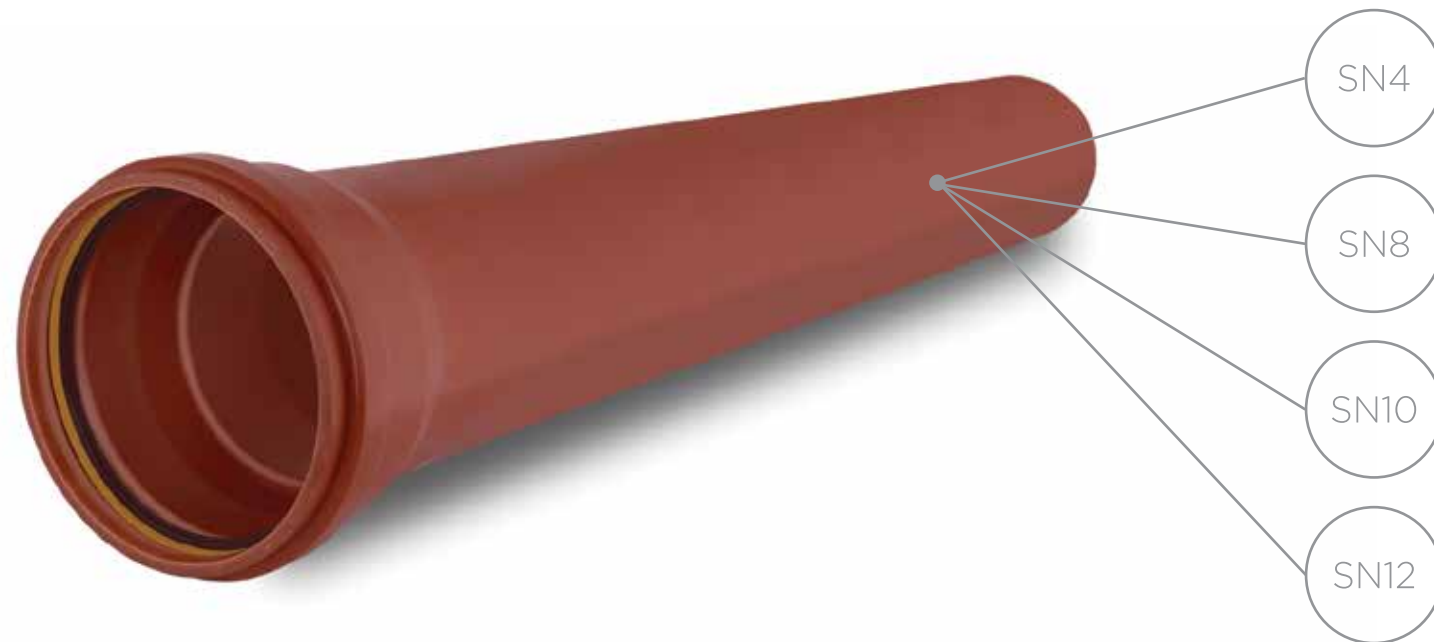




SN 4			SN 8			SN 10			SN 12			SN 16		
DN [mm]	S [mm]	L [mm]	DN [mm]	S [mm]	L [mm]	DN [mm]	S [mm]	L [mm]	DN [mm]	S [mm]	L [mm]	DN [mm]	S [mm]	L [mm]
110	3,4	1000	110	3,8	1000	110	4,2	1000	110	4,5	1000	110	5	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
125	3,9	1000	125	4,3	1000	125	4,8	1000	125	5,1	1000	125	5,7	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
160	4,9	1000	160	5,5	1000	160	6,2	1000	160	6,5	1000	160	7,3	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
200	6,2	1000	200	6,9	1000	200	7,7	1000	200	8,1	1000	200	9,1	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
250	7,7	1000	250	8,6	1000	250	9,6	1000	250	10,2	1000	250	11,4	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
315	9,7	1000	315	10,8	1000	315	12,1	1000	315	12,8	1000	315	14,4	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
400	12,3	1000	400	13,7	1000	400	15,4	1000	400	16,3	1000	400	18,2	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000
500	15,3	1000	500	17,1	1000	500	19,2	1000	500	20,3	1000	500	22,8	1000
		3000			3000			3000			3000			3000
		6000			6000			6000			6000			6000

PP STRONG pipes with integrated socket

The tubes are produced in ring stiffness of: SN4, SN8, SN10, SN12.



PIPE MARKING

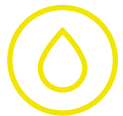
EAN, Peštan logo, PP DN_OD SDR EN1852 SN PP Strong CT UD www.pestan.net SRB date time *

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 four categories:



**PIPING
SOLUTIONS**



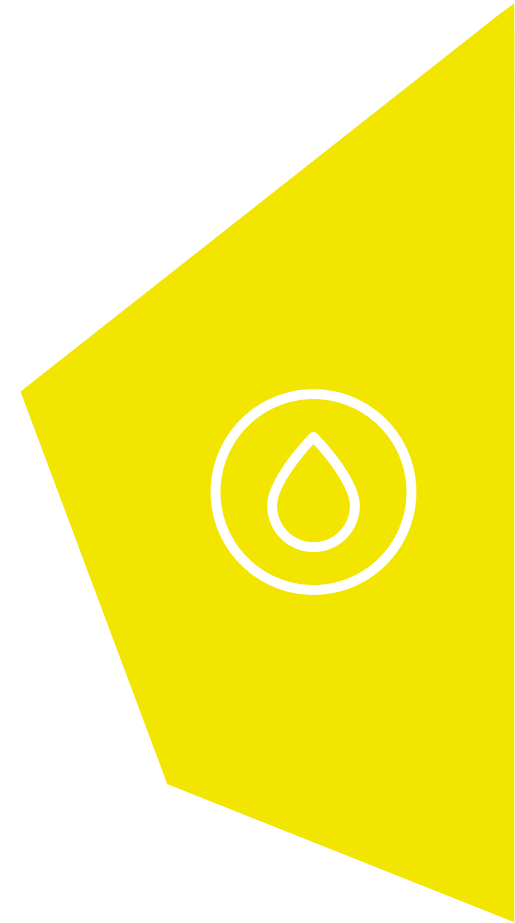
**DRAIN
SOLUTIONS**



**AGRICULTURE
SOLUTIONS**



**HOUSEHOLD
SOLUTIONS**



Edition 5

PEŠTAN PVC ULTRA SEWERAGE SYSTEM

PEŠTAN PVC ULTRA is a modern sewerage system, which exceeds most of the products of company Peštan.

Peštan development team, after years of research, has developed a new system of sewerage pipes, higher quality and more innovative than previously offered.

ULTRA system (which is a synonym for ultra-modern, innovation and quality) is complementing the existing PP STRONG system, but is based on the PVC as basic raw material.

Peštan PVC ultra are 3-layer sewerage pipes with ring stiffness SN 12. Pipes are produced and tested in accordance with EN 1401. These pipes have a diameter from DN160 to DN400 and have extruded socket which, unlike double sockets or sleeve sockets, reduces possibility of leaks of pipeline for 100%.

PURPOSE

The purpose of these pipes is in field of high static load such as airports, highways and railways. Pipes can be used in areas where there are underground water.

SN10	DN	D1	S	LENGTH (M)						D2	D3	E	F1	U	LB
				1	2	3	4	5	6						
				✓	✓	✓	✓	✓	✓						
160	160.4	4.7	✓	✓	✓	✓	✓	✓	160.3	174.4	12.5	12.5	50.8	75.9	
200	200	5.9	✓	✓	✓	✓	✓	✓	200.4	216.3	15.7	13.6	60.3	89.5	
250	250	7.3	✓	✓	✓	✓		✓	250.4	272.8	19.8	20.9	72.4	112.9	
300	315	9.2	✓	✓	✓	✓	✓	✓	315.5	339	24.9	22.8	87.8	135.5	
400	400	11.7	✓	✓	✓	✓	✓	✓	400.7	427.1	31.6	25.7	108.4	165.5	
500	500	14.6	✓	✓	✓	✓	✓	✓	500.7						
630	630	18.4	✓	✓	✓	✓	✓	✓	630.8						

SN12	DN	D1	S	LENGTH (M)						D2	D3	E	F1	U	LB
				1	2	3	4	5	6						
				✓	✓	✓	✓	✓	✓						
160	160	5.5	✓	✓	✓	✓	✓	✓	160.4	174.4	12.5	12.5	50.8	75.9	
200	200	6.7	✓	✓	✓	✓	✓	✓	200.5	216.3	15.7	13.6	60.3	89.5	
250	250	8.1	✓	✓	✓	✓		✓	250.5	272.8	19.8	20.9	72.4	112.9	
300	315	10.5	✓	✓	✓	✓	✓	✓	315.6	339	24.9	22.8	87.8	135.5	
400	400	12.7	✓	✓	✓	✓	✓	✓	400.8	427.1	31.6	25.7	108.4	165.5	
500	500	16.7	✓	✓	✓	✓	✓	✓	500.8						
630	630	20.7	✓	✓	✓	✓	✓	✓	630.9						

SN16	DN	D1	S	LENGTH (M)						D2	D3	E	F1	U	LB
				1	2	3	4	5	6						
				✓	✓	✓	✓	✓	✓						
160	160	6.1	✓	✓	✓	✓	✓	✓	160.5	174.4	12.5	12.5	50.8	75.9	
200	200	7.7	✓	✓	✓	✓	✓	✓	200.6	216.3	15.7	13.6	60.3	89.5	
250	250	9.6	✓	✓	✓	✓		✓	250.6	272.8	19.8	20.9	72.4	112.9	
300	315	12.1	✓	✓	✓	✓	✓	✓	315.7	339	24.9	22.8	87.8	135.5	
400	400	15.4	✓	✓	✓	✓	✓	✓	400.8	427.1	31.6	25.7	108.4	165.5	
500	500	19.2	✓	✓	✓	✓	✓	✓	500.8						
630	630	24.2	✓	✓	✓	✓	✓	✓	630.9						



PVC ULTRA

Compared to other plastics suitable for the manufacture of pipes, PVC is characterized by a high modulus of elasticity and good crack resistance. Excellent impact resistance of Pestan PVC Ultra system allows installation at temperatures as low as -10° C. Pipes can be used to distribute hot water to a maximum of 60°C.

Pipes carry a label with snowflake in accordance with EN 1401. The pipes are tested in accordance with EN 744 and EN 1411, which unlike of EN 1401 go a step further. This standard stipulates the release of metal weight of 8 kg with a height of at least one meter to the pipe, at a temperature of -10°C (for diameter DN160).

Since there were no cracks or deformation as result of testing of Pestan PVC Ultra, the mark of snowflake is allowed to be used on pipes. This test simulates the real situation on the construction site where large pieces of stone can fall onto the pipe until it is in a trench.

CHARACTERISTIC	REQUESTS	TESTING PARAMETERS	TEST METHOD	
impact resistance (method stairs)	H50±1m Max. A layout below 0,5m	Test/temperature/ type of stroke	-10 0C #90 in accordance with EN 1411:1996	EN 1411:1996
		Stroke mass for:		
		dn = 110mm	4kg	
		dn = 125mm	5kg	
		dn = 160mm	8kg	
		dn = 200mm	10kg	
dn = 250mm	12.5kg			

1. Bar code, 2. Peštan logo, 3. Material, 4. Diameter, 5. wall thickness, 6. Dimensions according to standard EN 1401, 7. Date and time of manufacture, 8. Snowflake (Installation at low temperatures)

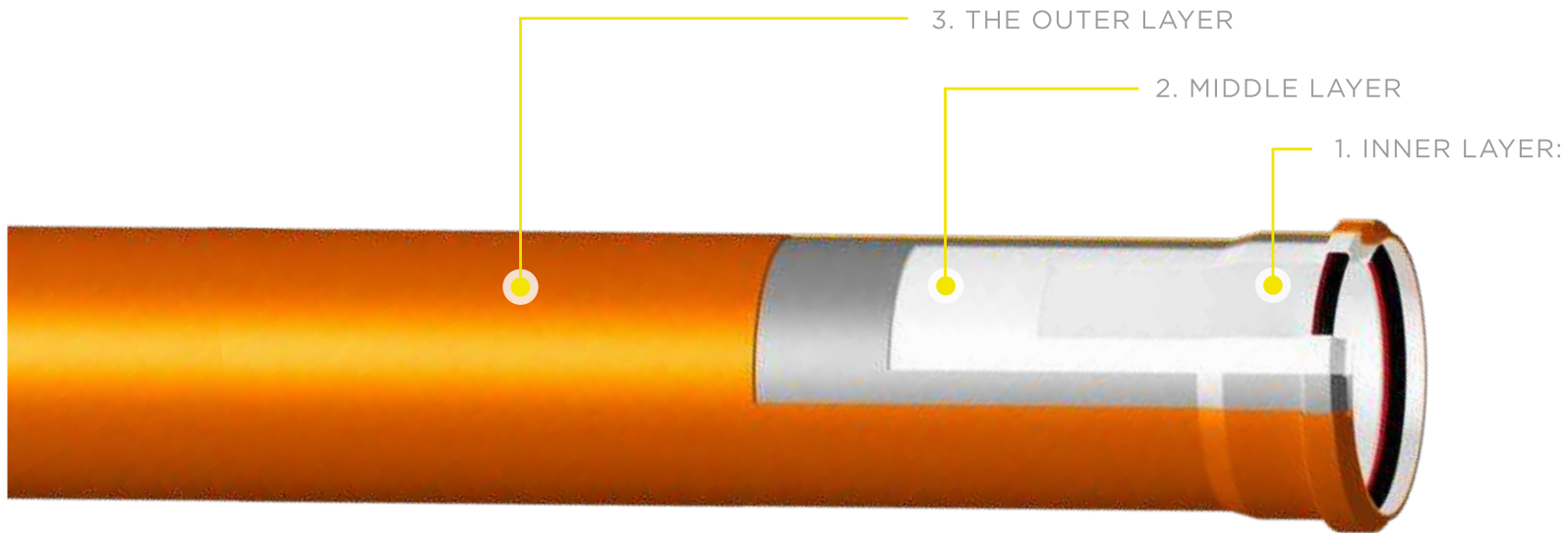


In socket, the rubber ring is placed, with two sealing surfaces and additional short plastic ring that is made in a different color. Rubber ring has a unique design that rubber parts and plastic manufactures together in order to obtain a sealing element. Soft plastic armature allows easy installation of ring, by bending inside to the place where the four notches. After that very easily corrected to the previous position thanks to the notches on the plastic part Rubber ring is firmly mounted in the socket of the pipe making seal through whole pipe and

eliminating many disadvantages of other types of rubber. The sealing rubber is mounted in socket of pipe and so reaches the customer. When the two pipes are connected, the rubber ring is designed to be deformed to a real pressure on the sleeve and the pipe and thus achieves an ideal combination. The pressure in the tubes can vary. The pressure in the pipes may vary, and in these conditions rubber ring must follow these deformations. Design of rubber ring facilitates the worker

installation in a trench, and it is impossible to drop the eraser or turned upside down, so that the risk of incorrect assembly practically does not exist. All that is needed is to lubricate the pipe ring. Opening modes have been designed so that it requires very little force to setup, alignment and connection of the pipes, reducing the risk of shifting of ring, even larger diameters even larger diameters can be connected without special tools and equipment to connect. Pipes fittings can be connected together easily and quickly.

THE INTERSECTION OF PVC ULTRA PIPES



1. UINNER LAYER:

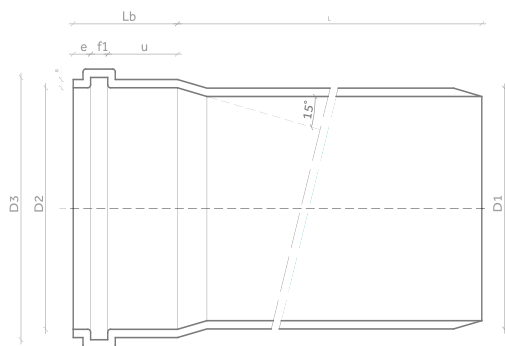
White color provides a better reflection when shooting camera

2. MIDDLE LAYER:

Gray filled with additional mineral reinforced
It absorbs blows
Increases static of pipes

3. THE OUTER LAYER:

Dark orange colour
Shockproof to stone



PARAMETER	CHARACTERISTICS
Material	polyvinyl chloride (PVC)
The structure of the pipe	Three-layer compact PVC pipes
The ring stiffness of the pipe	SN 10, SN 12, SN 16
Dostupne dužine cevi	1, 2, 3, 4, 5, 6 metara
Seal	Rubber and plastic reinforcement in a different color and with two sealing surfaces
The temperature when installing	minimum -10 ° C, maximum 50 ° C
Compacting soil during assembly	90 % - 98 % PS
The depth of the liner	min. 0,5 m, max. 10 m (on the basis of a detailed statistical calculation)

По вопросам продаж и поддержки обращайтесь:

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Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
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