

Saules iela 8, Ozolnieki, Ozolnieku pag., Ozolnieku nov., LV 3018  
Tālr.: +371 63050600, fakss: +371 63050230

# **PREINSULATED PIPE SYSTEMS FOR HOT WATER NETWORKS, PLASTIC PIPES AND DIFFERENT PROFILE PRODUCTS**

Catalogue AI 9.07

2016

# CONTENT

## CONTENT

<b>SMOOTH POLYETHYLENE CASING PIPES</b>	<b>7.1.</b>
<b>POLYETHYLENE PRESSURE PIPES FOR WATER DISTRIBUTION</b>	<b>7.2.</b>
<b>FLEXIBLE ELECTRICAL PIPES FROM PVC</b>	<b>7.3.</b>
<b>DIFFERENT TYPES OF POLES</b>	<b>7.4.</b>
<b>DIFFERENT TYPES OF POLYMER PRODUCTS</b>	<b>7.5.</b>



### **Application:**

- Used as an outer casing of polyethylene insulated district heating pipes.

### **Material :**

- High density polyethylene – PE100, PE80, special brand with set carbon, UV stabilizers and anti-oxygen content.

### **Standards :**

- Pipes comply with document requirements: EN 253 Pre-insulated pipe systems for hot water networks below grade – pipe assembling, using steel operational pipes with polyurethane thermal isolation and polyethylene external casing.

### **Pipe nominal dimension:**

Polyethylene (PE) casing pipe ØD, mm	Wall thickness e <sub>min</sub> , mm
90	3,0
110	3,0
125	3,0
140	3,0
160	3,0
180	3,0
200	3,2
225	3,4
250	3,6
280	3,9
315	4,1
355	4,5
400	4,8
450	5,2
500	5,6
560	6,0
630	6,6
710	7,2

## Polyethylene pressure pipes for water supply

7.2.



### Pipe nominal dimensions:

	SDR 7,4	SDR 9	SDR 11	SDR 13,6	SDR 17	SDR 21	SDR 26	SDR 33
PE 80	PN 20	PN 16	PN 12,5	PN 10	PN 8	PN 6	PN 5	PN 4
PE 100	PN 25	PN 20	PN 16	PN 12,5	PN 10	PN 8	PN 6	PN 5
Pipe diameter, D, mm	Wall thickness $e_{min}$ , mm							
20	2,8	2,3	2,0					
25	3,5	3,0	2,3	2,0				
32	4,4	3,6	3,0	2,4	2,0	2,0		
40	5,5	4,5	3,7	3,0	2,4	2,0		
50	6,9	5,6	4,6	3,7	3,0	2,4	2,0	
63	8,6	7,1	5,8	4,7	3,8	3,0	2,5	
75	10,3	8,4	6,8	5,6	4,5	3,6	2,9	
90	12,3	10,1	8,2	6,7	5,4	4,3	3,5	
110	15,1	12,3	10,0	8,1	6,6	5,3	4,2	
125	17,1	14,0	11,4	9,2	7,4	6,0	4,8	
140	19,2	15,7	12,7	10,3	8,3	6,7	5,4	
160	21,9	17,9	14,6	11,8	9,5	7,7	6,2	
180	24,6	20,1	16,4	13,3	10,7	8,6	6,9	
200	27,4	22,4	18,2	14,7	11,9	9,6	7,7	
225	30,8	25,2	20,5	16,6	13,4	10,8	8,6	
250	34,2	27,9	22,7	18,4	14,8	11,9	9,6	
280	38,3	31,3	25,4	20,6	16,6	13,4	10,7	
315	43,1	35,2	28,6	23,2	18,7	15,0	12,1	9,7
355	48,5	39,7	32,2	26,1	21,1	16,9	13,6	10,9
400	54,7	44,7	36,3	29,4	23,7	19,1	15,3	12,3
450	61,5	50,3	40,9	33,1	26,7	21,5	17,2	13,8
500		55,8	45,4	36,8	29,7	23,9	19,1	15,3
560			50,8	41,2	33,2	26,7	21,4	17,2
630			57,2	46,3	37,4	30,0	24,1	19,3

 - marked pipes are available in stock

### TECHNICAL INFORMATION

#### **Standards**

- Pipes comply with EN 12201 standard.

#### **Certification**

- Republic of Latvia building material and construction center for product compliance assessment,
- Hygiene certificate,
- Russian compliance certificate,
- Lithuanian certificate of conformity.

#### **Material**

- Pipes are manufactured from high density polyethylene (HDPE) PE 80 and PE 100 types.

#### **Color**

- Pipe color is black with blue lines and blue with yellow lines.

#### **Operational temperature**

- Pipe system is designed to be operational at temperatures from -25°C to +40°C.

#### **Packing quantity**

- Diameters from DN 20 to 110 mm are available in 100 meter rolls (with orders of more than 500 meters),
- Diameters from DN 75 to 630 mm are available in 6-12 m long pieces.

#### **Pipe system connection**

- With compression fittings (DN 20 - DN 110 mm),
- With electric welding fittings,
- With contact welding or using contact welding fittings.

#### **HDPE pipe system advantages**

- Outstanding long term durability (service life up to 50 years),
- highest corrosion strength possible,
- low current resistance,
- biological and chemical inertness,
- connection part and fitting assortment,
- full neutrality towards the environment: PE is 100% recyclable and can be recycled.

***Application:***

- Conduit wire isolation and additional protection for electric wires for up to 1000 V.

***Technical documentation:***

- Pipes comply with such document demand: GOST 19034.

***Material and color:***

- Soft plasticized polyvinyl chloride (elastic PVC).

***Operating temperature***

- Planned working temperature from – 60 °C to +105 °C.

***Tube sizes***

- Pipe inside diameters: from 0.5 mm to 50 mm.

***Packaging:***

- Rolled in roles. Weight depends on wire diameter, but does not exceed 25 kg. Customer is informed about the weight of the roll ahead of time.



**Gas posts:** chosen materials and profile ensure long-lasting and stable post service life. Posts are mainly used for strategically important network and wire marking above the ground (gas pipelines, telecommunication networks and others). All marking posts are patent.

**Material:** Polyethylene (PE).

**Dimensions:** L = 1,58 m un L = 2,38 m.

**Color:** pole – light brown, hat – black.



**Road posts:** chosen material and shape insure post return back on its original vertical position. In addition, designed shape and material insure minimal damage to the vehicle in case of an impact.

**Material:** Polyvinyl chloride (PVC).

**Dimensions:** L = 1,66 m.

**Color:** white.



**Marking posts with reflecting regions:** chosen material and color guarantee its visibility and mechanical purpose (noticeable and very durable) for road marking in winter time.

**Material:** Polypropylene (PP).

**Dimensions:** L = 2,0 m, Ø 26,0 x 2,5 mm.

**Color:** orange.

- Tapes
- Rods
- Different profiles



### Materials:

- polyethylene ( HDPE, LDPE )
- polypropylene ( PP )
- polyvinyl chloride ( PVC )