



BUILDING RESEARCH INSTITUTE - NISI
CONFORMITY ASSESSMENT BODY FOR CONSTRUCTION PRODUCTS
Licence granted by Ministry of Development and Public Works (MRRB) № ПООСП 07 from 15.09.2016
Registration number 07 from the register of MRRB

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**CERTIFICATE
OF CONFORMITY**

No 07-HYPBCПCPE-19.1/31.01.2019



Issued according to Article 14, paragraph 1 and/or 2 of the Ordinance No ПД-02-20-1/05.02.2015 on the terms and conditions for use of construction products in the construction of the Republic of Bulgaria (HYPBCПCPE) of the Ministry of Regional Development and Public Works for construction products

**HIGH DENSITY POLYETHYLENE PIPES (PE-HD) FOR PIPING
SYSTEMS INTENDED FOR HUMAN CONSUMPTION WATER
SUPPLY**

dimension groups: 1) $d_n < 75$ mm; 2) $75 \leq d_n < 250$ mm; 3) $250 \leq d_n < 710$ mm;
4) $710 \leq d_n < 1800$ mm; 5) $1800 \leq d_n < 2500$ mm

in pipe range, working pressure and dimensions according to Annex I of that certificate and
declared performance according to Annex II of that certificate

placed on the market by

FIRAT PLASTIK, KAUCUK SAN. Ve TIK.A.S
TURKEY, ISTANBUL, TURKOBA KOYU P.K.12, 34 907 BUYUKCEKMECE

and produced at

the company factory in **TURKEY, ISTANBUL,**
TURKOBA KOYU P.K.12, 34 907 BUYUKCEKMECE

This certificate attests that the products have been assessed and meet the national requirements set out in
BDS EN 12201-2:2011 +A1:2013 and BDS EN 12201-2:2011 +A1:2013/NA: 2014 and
Order No ПД-02-14-1329/ 03.12.2015 of the Minister of Regional Development and Public Works,
amendment p.6 of Annex 2 of Order No ПД-02-14-590/05.07.2017.

This certificate is first issued on 31th January 2019 and will remain valid to 30th January 2022 provided
that the manufacturer ensures the consistency of characteristics of the products and that the conditions of
the production and production control are not significantly modified.

Head of the CAB
Res.Ass. Eng. Victoria Vassileva PhD

General Manager of NISI Ltd
Eng. Stanko Yonchev



Sofia, 31th January 2019

This Certificate includes 2 Annexes of 1 page which are an integral part of it.



PIPE RANGE, WORKING PRESSURE AND DIMENSIONS
of high density polyethylene pipes (PE-HD)
produced by **FIRAT PLASTIK, KAUCUK SAN. Ve TIK.A.S.**,
included in the Certificate scope

Pipe range	SDR	PN (bar)	Nominal dimension (mm)
Pipes of PP-E	7,4	25	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000
	9	20	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800
	11	16	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200
	13,6	12,5	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600
	17	10	32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000
	21	8	40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2250, 2500
	26	6	50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2250, 2500
	33	5	315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2250, 2500
	41	4	315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2250, 2500

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Declared performance of high density polyethylene pipes (PE-HD)
 produced by **FIRAT PLASTIK, KAUCUK SAN. Ve TIK.A.S.**,
 included in the Certificate scope

Characteristic	Test method	Performance				
		Dimension group 1 $d_n < 75$ mm	Dimension group 2 $75 \leq d_n < 250$ mm	Dimension group 3 $75 \leq d_n < 250$ mm	Dimension group 4 $75 \leq d_n < 250$ mm	Dimension group 5 $75 \leq d_n < 250$ mm
Hygiene requirements (release of dangerous substances) of pipes intended to supply water for human consumption	Ordinance No 9/ 16.03.2001 on water quality for drinking water purposes	Comply with BDS EN ISO 8795 KTW test for conformity of raw material and finished pipes	Comply with BDS EN ISO 8795 KTW test for conformity of raw material and finished pipes	Comply with BDS EN ISO 8795 KTW test for conformity of raw material and finished pipes	Comply with BDS EN ISO 8795 KTW test for conformity of raw material and finished pipes	Comply with BDS EN ISO 8795 KTW test for conformity of raw material and finished pipes
Appearance	No	Satisfy	Satisfy	Satisfy	Satisfy	Satisfy
Geometrical characteristics, mm	BDS EN ISO 3126	Conform to the threshold levels, according to Table 3 of BDS EN 12201-3	Conform to the threshold levels, according to Table 3 of BDS EN 12201-3	Conform to the threshold levels, according to Table 3 of BDS EN 12201-3	Conform to the threshold levels, according to Table 3 of BDS EN 12201-3	Conform to the threshold levels, according to Table 3 of BDS EN 12201-3
Hydrostatic strength (80 °C, 165 hours)	BDS EN ISO 1167-1 BDS EN ISO 1167-2	No failure	No failure	No failure	No failure	No failure
Elongation at break	BDS EN ISO 6259-1 BDS EN ISO 6259-3	≥ 350 %	≥ 350 %	≥ 350 %	≥ 350 %	≥ 350 %
Oxidation induction time (thermal stability)	BDS EN ISO 11357-6	> 20 min	> 20 min	> 20 min	> 20 min	> 20 min
Melt mass-flow rate, g/10 min	BDS EN ISO 1133-1	+/-20% deviation from the measured values of the raw material batch and pipe	+/-20% deviation from the measured values of the raw material batch and pipe	+/-20% deviation from the measured values of the raw material batch and pipe	+/-20% deviation from the measured values of the raw material batch and pipe	+/-20% deviation from the measured values of the raw material batch and pipe

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