



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-HYPBCПЦРБ-19.3/31.01.2019



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 (HYPBCПЦРБ) of the Ministry of Regional Development and Public Works for construction products

**PIPES AND FITTINGS WITH SMOOTH INNER AND PROFILED
(CORRUGATED) OUTSIDE SURFACE (wall structure type B) OF
POLYETHYLENE (PE) - dimension groups for pipes:**

- 1. DN/ID ≤ 200 mm; 2. DN/ID > 200 ≤ 500 mm; 3. DN/ID > 500 ≤ 1200 mm;**
Fittings groups: elbows, branches, other fittings

**PIPES WITH SMOOTH INNER AND PROFILED (SPIRALLY-FORMED)
OUTSIDE SURFACE OF POLYETHYLENE (PE) - dimension groups:**

- 2. DN/ID > 200 ≤ 500 mm; 3. DN/ID > 500 ≤ 1200 mm**

Intended for sewage pipes, buried gravity drainage / sewerage piping systems for inside and outside installations put up **in pipe range, working pressure, dimensions and declared performance according to Annex I and Annex II of that certificate**

placed on the market by

FIRAT PLASTIK, KAUCUK SAN. Ve TIK.A.S
address: 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 13476 -3:2007 +A1:2009, BDS EN 13476 -3:2007 +A1:2009 / NA:2015 and
p.12 of Annex 2 of Order No ПД-02-14-1329/03.12.2015 of the Minister of Regional Development
and Public Works.

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 AND DIMENSIONS

of pipes and fittings with smooth inner and profiled outside surface of polyethylene (PE)
 produced by **FIRAT PLASTIK, KAUCUK SAN. Ve TIK.A.S.**,
 included in the Certificate scope

Pipes with corrugated outside surface		Corrugated fittings	
Pipe range DN/ID	Minimum inside diameter (mm)	Pipe range	Nominal diameter (mm)
100	95	Elbows	300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200
125	120	Y - branches	300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200
150	145	Reducing Tee	
200	195	Special fittings	
225	220		
250	245		
300	294		
400	392		
500	490		
600	588		
800	785		
1000	985		
1200	1185		

Spirally-formed pipes

Pipe range DN/ID												
100	125	150	200	225	250	300	400	500	600	800	1000	1200
Minimum inside diameter (mm)												
95	120	145	195	220	245	294	392	490	588	785	985	1185

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

General Manager of NISI Ltd
 Eng. Stanko Yonchev





Declared performance of pipes and fittings with smooth inner and profiled outside surface of polyethylene (PE), produced by **FIRAT PLASTIK, KAUCUK SAN. Ve TIK.A.S**, included in the Certificate scope

Corrugated pipes

Characteristic	Test method	Performance
Appearance and colour	Visual	Satisfy
Geometrical characteristics: mean inside diameter DN/ID	BDS EN ISO 3126	Confirm
Melt mass-flow rate of pipe, MFR	BDS EN ISO 1133-1	+/-20% deviation from the measured values of the raw material batch and each of the layers
Resistance to external blows by the round-the-clock method at 0 °C	BDS EN 744	Confirm
Resistance to external blows - Staircase method at -10 °C	BDS EN 1411	Confirm
Resistance to heating	ISO 12091	Confirm

Corrugated fittings

Characteristic	Test method	Performance
Appearance and colour	Visual	Confirm
Geometrical characteristics	BDS EN ISO 3126	Confirm
Effects of heating	BDS EN ISO 580	Confirm
Watertightness	BDS EN 1053	Confirm

Spirally-formed pipes

Characteristic	Test method	Performance
Appearance and colour	Visual	Confirm
Geometrical characteristics: mean inside diameter DN/ID	BDS EN ISO 3126	Confirm
Melt mass-flow rate of pipe, MFR	BDS EN ISO 1133-1	+/-20% deviation from the measured values of the raw material batch and pipe (including each of the layers)
Resistance to external blows by the round-the-clock method at 0 °C	BDS EN 744	Confirm
Resistance to external blows - Staircase method at -10 °C	BDS EN 1411	Confirm
Resistance to heating	ISO 12091	Confirm

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