



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

Bulgaria, 1618 Sofia, 86 Nikola Petkov Blvd. , tel: +359 28561082, fax: +359 29559638, e-mail: nisi@nisi.bg, web: www.nisi.bg

**CERTIFICATE
OF CONFORMITY**

No 07-НУРВСПСРБ-19.2/31.01.2019



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

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

Groups (A); (B); (C); (D)

Types: Electrofusion socket fitting, Electrofusion saddle fitting, Spigot end fitting, Fabricated fitting
in pipe range, working pressure and dimensions according to Annex I and declared performance
according to Annex II of that certificate

placed on the market by

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

and produced at

the company factory in **TURKEY, INSTANBUL,**
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 12201-3:2011 +A1:2013 and BDS EN 12201-3:2011 +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



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

Pipe range	Fitting type	Nominal dimension (mm)
Fittings HDPE 100	EF Coupler	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225, 250, 280, 315, 355, 400
	EF Repair Adapter	63, 75, 90, 110, 125, 140, 160, 180, 200, 225
	EF Service Tee Set Flat	63x20; 63x25; 63x32; 63x40; 63x50; 63x63; 75 x 20; 75x25; 75x32; 75x40; 75x50; 75x63; 90 x 20; 90x25; 90x32; 90x40; 90x50; 90x63; 110 x 20; 110x25; 110x32; 110x40; 110x50; 110x63; 125 x 20; 125x25; 125x32; 125x40; 125x50; 125x63
	EF Service Tee Set with Valve	63x20; 63x25; 63x32; 63x40; 63x50; 63x63; 75 x 20; 75x25; 75x32; 75x40; 75x50; 75x63; 90 x 20; 90x25; 90x32; 90x40; 90x50; 90x63; 110 x 20; 110x25; 110x32; 110x40; 110x50; 110x63; 125 x 20; 125x25; 125x32; 125x40; 125x50; 125x63
	Reducing Tee	90x63; 90x75; 110x50; 110x63; 110x75; 110x90; 125x63; 125x75; 125x90; 125x110; 140x50; 140x63; 140x75; 140x90; 140x110; 140x125; 160x63; 160x75; 160x90; 160x110; 160x125; 160x140; 180x50; 180x63; 180x75; 180x90; 180x110; 180x125; 180x140; 180x160; 200x50; 200x63; 200x75; 200x90; 200x110; 200x125; 200x140
	90° Elbow (Injection)	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225
	90° Elbow (Fabricated)	250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200
	End Cap	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225
	45° Elbow (Injection)	25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225
	45° Elbow (Fabricated)	250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200
	30° Elbow (Fabricated)	90, 110, 125, 140, 160, 180, 200, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200
	Reducing Tee (Injection)	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 140, 160, 180, 200, 225
Reducing Tee (Fabricated)	110, 125, 140, 160, 180, 200, 250, 280, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1200	

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

Characteristic	Test method	Performance
Hygiene requirements (release of dangerous substances) of fittings 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
Appearance	-	Satisfy
Geometrical characteristics	BDS EN ISO 3126	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 1167-3	Pass
Melt mass-flow rate, g/10 min	BDS EN ISO 1133-1	< 20 % deviation from the measured values of the raw material batch and fittings
Oxidation induction time	BDS EN ISO 11357-6	> 20 min
Impact resistance of tees	BDS EN 1716	No leaks and failure
Cohesive strength (saddle) for fittings with saddles for electrofusion	ISO 13956	Ld < 50 % Ad < 25 %

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