



BULGARKONTROLA S.A.

**CARGO & DAMAGE SURVEYS, LABORATORY ANALYSES,
CONFORMITY ASSESSMENT & TECHNICAL INSPECTIONS,
MANAGEMENT SYSTEMS, ORGANIC CERTIFICATION**

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CERTIFICATE OF CONFORMITY

14 – HYPBCIICPБ – 3415

Issued pursuant to Art. 14, par.1 and par. 2 of the Regulation № ПД-02-20-1 on 05.02.2015 on the terms and conditions for use of construction products in the construction of the Republic of Bulgaria on Ministry of Regional Development and Public Works for the **construction product**

FITTINGS

Made of High-density polyethylene HDPE 100

With trade mark „Borfit”

Are designed for construction of potable water supply systems outside buildings and branching with, product range, connection method, dimensions, operating pressure and evaluated characteristics in accordance with national requirements as per Supplement № 1 to this Certificate.

placed on the market by

TURAN MAKINA PLASTIK BORU SISTEMLERI A.S.

Sanayi Mahallesi Adiguzel Sokak No 6

Kurtkoy Pendik Istanbul, Turkey

manufactured by

TURAN MAKINA PLASTIK BORU SISTEMLERI A.S.

Sanayi Mahallesi Adiguzel Sokak No 6

Kurtkoy Pendik Istanbul, Turkey

This certificate certifies that the product has been evaluated and meets national requirements set out in

BDS EN 12201-3:2011+A1:2013

BDS EN 12201-3:2011+A1:2013/NA:2014

*and item 8 of Annex 2 to Order № 02-14-1329 from 03.12.2015
of the Minister of Regional Development and Public Works*

The Certificate was issued on **01/06/2020**, cancel the Certificate **14-HYPBCIICPБ-2451** on **27/06/2017** and remains valid for three years until **30/05/2023**, the provided that the manufacturer ensures consistency of product characteristics and the conditions of production or production control have not been changed significantly.

Place: Sofia

Date: 01/06/2020

Director of "Conformity Assessment" Dept.

/T. Lyubenova/

BULGARKONTROLA S.A. – Sofia with identification number 14 of register Ministry of Regional Development and Public Works
Permit № ПОСЦП-14 on 15.09. 2016, issued by Ministry of Regional Development and Public Works



Annex № 1
to Certificate of Conformity № 14- HYPBCПCРБ-3415

1. Product range, operating pressure, dimensions

№	Product range	SDR	PN (bar)	Nominal dimensions dn (mm)
I. Electrofusion fittings				
1.1.	EF Coupler	17/11	10/16	20 ÷ 1600
1.2.	EF Elbow 45°	17/11	10/16	32 ÷ 225
1.3.	EF Elbow 90 °	17/11	10/16	20 ÷ 225
1.4.	EF Tee 90 °	17/11	10/16	32 ÷ 225
1.5.	EF Reduced Tee 90 °	17/11	10/16	32/25 ÷ 225/160
1.6.	EF Reducer	17/11	10/16	63/32 ÷ 225/200
1.7.	EF Cap	17/11	10/16	20 ÷ 400
1.8.	EF Saddle	17/11	10/16	63/63 ÷ 400/63 63/20 ÷ 400/50
1.9.	EF Repair Saddle	17/11	10/16	40 ÷ 400
1.10.	EF Saddle	17/11	10/16	160/110 ÷ 1000/225
1.11.	EF Tapping Tee	17/11	10/16	40/20 ÷ 400/63
1.12.	EF Valve Tapping Tee 360°	17/11	10/16	63/20 ÷ 400/63
II. Butt welding fittings				
2.1.	Elbow 45°	17/11	10/16	20 ÷ 630
2.2.	Elbow 60°	17/11	10/16	75 ÷ 630
2.3.	Elbow 90°	17/11	10/16	20 ÷ 630
2.4.	Tee 90°	17/11	10/16	20 ÷ 630
2.5.	Tee 45°	17/11	10/16	110 ÷ 160
2.6.	Reduced Tee 90°	17/11	10/16	32/25 ÷ 400/250 40/25 ÷ 400/225 450/110 ÷ 800/315 450/50 ÷ 1600
2.7.	Reducer	17/11	10/16	25/20 ÷ 400/355
2.8.	Long Step Reducer	17/11	10/16	450/400 ÷ 630/560
2.9.	Short Step Reducer	17/11 17/11 17/11	10/16 10/16 10/16	630 ÷ 400 710/400 ÷ 1000/900 800/710 ÷ 1600/1400
2.10.	Flange Adaptor	17/11	10/16	20 ÷ 1600
2.11.	Cap	17/11	10/16	20 ÷ 630
2.12.	Cross tee 90°	17/11	10/16	110 ÷ 160
2.13.	Reduced Cross tee 90°	17/11	10/16	63/32 ÷ 500/400
III. Segmented (fabricated) fittings				
3.1.	EF Elbow 11°	17/11	10/16	110 ÷ 1600
3.2.	EF Elbow 30°	17/11	10/16	110 ÷ 1600
3.3.	EF Elbow 45°	17/11	10/16	450 ÷ 1600
3.4.	EF Elbow 60°	17/11	10/16	450 ÷ 1600
3.5.	EF Elbow 90°	17/11	10/16	450 ÷ 1600
3.6.	Tee 90°	17/11 17/11	10/16 10/16	450 ÷ 1600 800 ÷ 2500
3.7.	Tee 45°	17/11	10/16	90 ÷ 630
3.8.	Tee 60°	17/11	10/16	90 ÷ 630
3.9.	Cross tee 90°	17/11	10/16	90 ÷ 630

Place: Sofia
Date: 01/06/2020

Director of "Conformity Assessment" Dept.
T. Lyubenova/

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2. Evaluated characteristics in accordance with national requirements

Characteristics	Requirement to declare / border level
Appearance	Smooth and clean surface without pores, According item 5.1. of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Colour	Color black, According item 5.3. of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Geometrical characteristics, mm	According table 1,2,3 of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Hydrostatic strength, (80 °C/165 h, и 80 °C/1000 h)	No leaks and punctures above 165 h/1000 h According item 7.3, table 4 of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Melt mass - flow rate (MFR), g/10min 190°C, 5 kg/10min	Change of MFR by processing $\pm 20 \%$ According item 8.2, table 7 of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Oxidation time (OIT), min	> 20 min According item 8.2, table 7 of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Impact resistance of tapping tees	No failure, no leaks According item 7.3, table 4 of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Decohesive resistance for electrofusion socket fittings, mm	$\leq L_2/3$ mm According item 7.3, table 4 of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Cohesive resistance for electrofusion saddle fittings, %	$\leq L_d 50 \%$, $\leq A_d 25 \%$ According item 7.3, table 4 of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-3:2011+A1:2013/NA:2014
Tensile strength of butt fusion, N/mm ² for segmented (fabricated) fittings	Tensile strength / ductile according item Annex B, tabl.B1 of BDS EN 12201-3:2011+A1:2013 BDS EN 12201-32:2011+A1:2013/NA:2014

Place: Sofia
Date: 01/06/2020

Director of "Conformity Assessment" Dept.
/T. Lyubenova/

