

CERTIFICATE OF CONFORMITY**23 – НУРВСПСРБ – КН – 031 – 55**

Issued pursuant to Art. 14, par.1 and/or par.2 of Ordinance № RD-02-20-1 from 05.02.2015 on the terms and the conditions for the use of construction products in the construction works of the Republic of Bulgaria of the Ministry of Regional Development and Public Works for the construction product

Pipes and fittings from polyethylene (PE100, PE100RC)

Designed for installations outside buildings for water supply, drainage and sewerage under pressure with dimensions, working pressure and evaluated characteristics in accordance with Annex № 1 to this Certificate

Released on the market by:

KONTI HIDROPLAST DOOEL**Industriska b.b, 1480 Gevgelija, Republic of North Macedonia**

Produced in:

KONTI HIDROPLAST DOOEL**Industriska b.b, 1480 Gevgelija, Republic of North Macedonia**

This Certificate certifies that the product's characteristics have been evaluated according to

**BDS EN 12201-2:2011 + A1:2013 and BDS EN 12201-3:2011 + A1:2013,
BDS EN 12201-2:2011 + A1:2013/ NA:2014 and
BDS EN 12201-3:2011 + A1:2013/ NA:2014**

and conform to the national requirements, defined in
*points 7 and 8 from Annex № 2 to item 2 of Order № ПД-02-14-1329 from 03.12.2015 of the
Minister of the Regional Development and Public Works,
amended and supplemented by Order № 02-14-590 from 05.07.2017, Order № ПД-02-14-
257 from 13.03.2019 and Order № ПД-02-14-252 from 10.03.2021*

The Certificate was issued for the first time on **07.01.2021**, reissued on **08.01.2024** and remains valid until **07.01.2027**, provided that the producer ensures consistency of product characteristics and the conditions of production or production control have not been changed significantly.

Place of issuance: Sofia**Date: 08.01.2024****CEO:****(Dipl. Ing. Alexander Marinchev)**

BULAQUA STANDART

This certificate includes 1 Annex of 3 pages, which is an integral part of the same.

Annex №1
to Certificate of conformity № 23 – НУРВСИРСБ – КН – 031 – 55
issued on 08.01.2024 and valid until 07.01.2027
1. Dimensions – monolayer pipes from PE100

Nominal size DN/OD, mm	Working pressure PN, bar	SDR
20 ÷ 400	32	6,0
20 ÷ 500	25	7,4
20 ÷ 560	20	9,0
20 ÷ 800	16	11,0
25 ÷ 800	10	17,0
40 ÷ 800	6	26

2. Dimensions – pipes from PE100 RC

Nominal size DN/OD, mm	Working pressure PN, bar	SDR	Type
20 ÷ 800	6	26	Type 1 - Monolayer pipes
20 ÷ 800	10	17	
20 ÷ 800	16	11	
20 ÷ 800	20	9	
20 ÷ 450	25	7,4	
32 ÷ 800	6	26	Type 2: <ul style="list-style-type: none"> • PE100RC Double layer pipes with coextruded outside layer from PE100 or PE100RC and inside layer from PE100RC • PE100RC Triple layer pipes with coextruded outside and inside layer from PE100RC and middle layer from PE100
32 ÷ 800	10	17	
20 ÷ 800	16	11	
20 ÷ 800	20	9	
20 ÷ 450	25	7,4	
40 ÷ 800	6	26	Type 3 - PE100RC pipes with peelable layer, contiguous thermoplastics additional layer from polypropylene (PP) on the outside of the pipe ("coated pipe")
40 ÷ 800	10	17	
40 ÷ 800	16	11	
40 ÷ 800	20	9	
40 ÷ 450	25	7,4	

3. Dimensions – fittings from PE100

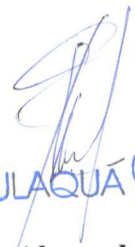
Product	Nominal size DN/OD, mm	SDR	Working pressure PN, bar
Elbow 90°	90 - 630	9; 11; 17; 26	20; 16; 10; 6
Elbow 60°	90 - 630		
Elbow 45°	90 - 630		
Elbow 30°	90 - 630		
Elbow 22°	90 - 630		
Elbow 11°	90 - 630		
Tee 90°	90 - 400		
Tee 90°	90 - 450		
Tee 90°	90 - 500		
End cap	50 - 630		
Tee - reducer	90/75 - 630/90		
Reducer	90/75 - 630/400		
Transition/adaptor/ flange	63 - 800	6; 7,4; 9; 11; 17; 26; 41	32; 25; 20; 16; 10; 6; 4
Transition FF parts	50 - 800	6; 7,4; 9; 11; 17; 26; 41	32; 25; 20; 16; 10; 6; 4

4. Evaluated characteristics in accordance with the national requirements

Characteristic	Declaration requirement
Appearance	Smooth and clean surface, without cracks and surface pores According to BDS EN 12201-2:2011 + A1:2013, item 5.1 According to BDS EN 12201-3:2011 + A1:2013, item 5.1
Colour	For water for human consumption: blue or black with blue stripes For conveying untreated water, for sewerage under pressure and drainage, vacuum sewerage systems and for water for other purposes: black or black with brown stripes According to BDS EN 12201-2:2011 + A1:2013/ NA:2014, item 5.2
Geometrical characteristics, mm	According to BDS EN 12201-2:2011 + A1:2013, Tables 1 and 2 According to BDS EN 12201-3:2011 + A1:2013, item 6, Tables 1, 2 and 3

Hydrostatic strength (80 °C-165 h)	<p>≥ 165h without damage According to BDS EN 12201-2:2011 + A1:2013, Table 3 According to BDS EN 12201-3:2011 + A1:2013, item 7, Table 4</p>
Longitudinal reversion, %	<p>≥ 350 % According to BDS EN 12201-2:2011 + A1:2013, Table 5</p>
Oxidation induction time (thermal stability), min	<p>≥ 20 min According to BDS EN 12201-2:2011 + A1:2013, Table 5 According to BDS EN 12201-3:2011 + A1:2013, item 8, Table 7</p>
Melt mass-flow rate (MFR), 190 °C/ 5 kg/ 10 min	<p>Maximum deviation ± 20 % between the measured value MFR of the raw material and the pipe According to BDS EN 12201-2:2011 + A1:2013, Table 5 According to BDS EN 12201-3:2011 + A1:2013, item 8, Table 7</p>
Integrity of the structure after deflection, % For coextruded pipes	<p>>80 % from the initial value of the stiffness According to Annex B from BDS EN 12201-2:2011 + A1:2013</p>
Impact resistance of tapping tees	<p>No failure, no leaks According to BDS EN 12201-3:2011 + A1:2013, item 7, Table 4</p>
Tensile strength of butt fusion fittings – spigot fittings	<p>Test to failure: ductile – pass; brittle - fail According to BDS EN 12201-3:2011 + A1:2013, item 7, Table 4</p>

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 Date: 08.01.2024


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