



BULGARKONTROLA S.A.

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

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CERTIFICATE OF CONFORMITY

14 – HYPBCПCРБ – 3362

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**

PIPES MADE OF POLYPROPYLENE (PP-R, PP-RCT)

trade mark "B-R"

Are designed for construction of building installations for hot and cold drinking water supply, with product range, operating pressure, dimensions and evaluated characteristics in accordance with national requirements as per Supplement № 1 to this Certificate.

placed on the market by

BÄNNINGER KUNSTSTOFF – PRODUKTE GmbH
Bänninger Strasse 1, 35447 Reiskirchen, Germany

manufactured by

BÄNNINGER KUNSTSTOFF – PRODUKTE GmbH
Bänninger Strasse 1, 35447 Reiskirchen, Germany

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

BDS EN ISO 15874-2:2013

BDS EN ISO 15874-2:2013/NA:2014

*and item 16 of Annex 2 to item 2 of Order № 02-14-1329 from 03.12.2015,
of the Minister of Regional Development and Public Works*

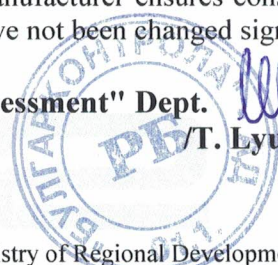
The Certificate was issued on **23/03/2020**, cancel the Certificate **14-HYPBCПCРБ-2437** on **12.06.2017** and remains valid for three years until **22/03/2023**, the provided that the manufacturer ensures consistency of product characteristics and the conditions of production or production control have not been changed significantly.

Place: Sofia

Date: 23/03/2020

Director of "Conformity Assessment" Dept.

[Signature]
/T. Lyubenova/



BULGARKONTROLA S.A. – Sofia with identification number 14 of register Ministry of Regional Development and Public Works
Permit № ПОСЧП-14 on 15.09.2016, issued by Ministry of Regional Development and Public Works



1. Product range, dimensions and operating pressure

Product range	Nominal dimensions d_n , mm	Pipes series (S)	Application classes P_D
1. Pipes made of PP-RC (polypropylen random copolymer)	16-125	2,5	Class 1/ 10 bar Class 2/ 8 bar Class 4/ 10 bar Class 5/ 6 bar
2. Pipes made of PP-RCT (polypropylen random copolymer whit special crystalline structure)	20-125	3.2	Class 1/ 10 bar Class 2/ 10 bar Class 4/ 10 bar Class 5/ 8 bar
	32-225	5	Class 1/ 6 bar Class 2/ 6 bar Class 4/ 6 bar Class 5/ 4 bar
3. Pipes "Stabi" (made of PP-RCT with aluminum)	16-125	3,2	Class 1/ 10 bar Class 2/ 10 bar Class 4/ 10 bar Class 5/ 8 bar
4. Pipes "Watertec" (made of PP-RCT/GF/PP-RCT with glasfiber)	20-125	3,2	Class 1/ 10 bar Class 2/ 10 bar Class 4/ 10 bar Class 5/ 8 bar

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 ISO 15874-2:2013 BDS EN ISO 15874-2:2013/ NA:2014
Colour	green, grey
Geometrical characteristics, mm	Group 1: d_n 16÷ d_n 63 mm; Group 2: d_n 63÷ d_n 225 mm According item 6.2, tabl.5,9 of BDS EN ISO 15874-2:2013 BDS EN ISO 15874-2:2013/ NA:2014
Hydrostatic strength, (20 °C/1 h , 95 °C/165 h)	no leaks and punctures over 1h/165 h According item 7, tabl.10 of BDS EN ISO 15874-2:2013 BDS EN ISO 15874-2:2013/ NA:2014
Longitudinal revision, %	≤ 2 % without damage According item 8, tabl.11 of BDS EN ISO 15874-2:2013 BDS EN ISO 15874-2:2013/ NA:2014
Melt mass - flow rate (MFR), g/10min 230 °C/ 2,16 kg/10min	± 30 % between MFR the raw material and the pipe According item 8, tabl.11 of BDS EN ISO 15874-2:2013 BDS EN ISO 15874-2:2013/ NA:2014
Impact resistance-Charpy method,%	Without breaking on 10 pcs. Samples According item 8, tabl.11 of BDS EN ISO 15874-2:2013 BDS EN ISO 15874-2:2013/ NA:2014

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