



**CERTIFICATE
OF CONFORMITY**

No. 07-HYPBCIIICPB-20.15



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 (HYPBCIIICPB) of the Ministry of Regional Development and Public Works

POLYPROPYLENE PIPES (PP-R) (FUSIOLEN®)

WITH COMMERCIAL NAME AQUATHERM GREEN PIPE

FOR BUILDING INSTALLATIONS FOR COLD AND HOT DRINKING WATER SUPPLY

DIMENSION GROUPS: 1) $16\text{mm} < d_n \leq 63\text{mm}$; 2) $63\text{mm} < d_n \leq 160\text{mm}$

in pipe range, working pressure and dimensions according to Annex 1 of that certificate and declared characteristics according to Annex II of that certificate

placed on the market by

MULTIKOM OOD

36 Karlovska Str., Plovdiv, Bulgaria

and produced at

the factory of **aquatherm GmbH**

5 Biggen, Attendorn, D – 57439, Germany

This certificate attests that the product has been evaluated and meets the national requirements set out in **BDS EN ISO 15874-2:2013 and BDS EN ISO 15874-2:2013/NA:2020** 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 20th November 2020 and will remain valid to 19th November 2023 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

Maya Koseva



Sofia, 20th November 2020

This Certificate includes 2 Annexes of 2 pages which are an integral part of it.



PIPE RANGE, WORKING PRESSURE AND DIMENSIONS

of polypropylene pipes (PP-R) (FUSIOLEN®) with commercial name **aquatherm green pipe** produced by **aquatherm GmbH**, included in the Certificate scope

Pipe range	Nominal dimension (mm)	PN	SDR
Pipes of (PP-R) (FUSIOLEN®)	16, 20, 32, 40, 50, 63, 75, 90, 110	20	6
	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 160	16	7,4
	20, 25, 32, 40, 50, 63, 75, 90, 110, 125, 160	10	11,0

Continued



DECLARED PERFORMANCE

of **polypropylene pipes (PP-R) (FUSIOLEN®)** with commercial name **aquatherm green pipe** produced by **aquatherm GmbH**, included in the Certificate scope

Characteristic	Test method	Performance	
		Dimension group 1 16mm < d _n ≤ 63mm	Dimension group 2 63mm < d _n ≤ 160mm
Hygiene requirements (release of dangerous substances) of pipes intended to supply water for human consumption	Ordinance No 9/16.03.2001 on water quality for drinking water purposes	Satisfy	Satisfy
Appearance	-	Satisfy	Satisfy
Geometrical characteristics: - Nominal outside diameter – d _n mm - Wall thickness, e	BDS EN ISO 3126	Confirm to the threshold levels according to Tables 5, 6, 7, 8 and 9 of BDS EN ISO 15874-2:2013	Confirm to the threshold levels according to Tables 5, 6, 7, 8 and 9 of BDS EN ISO 15874-2:2013
Hydrostatic strength (95°C, 165 hours)	БДС EN ISO 1167-1 БДС EN ISO 1167-2	No failure	No failure
Melt mass-flow rate, (sample from pipe)	BDS EN ISO 1133-1	Deviation shall be < 30% from the measured value of the pipe and raw material batch	Deviation shall be < 30% from the measured value of the pipe and raw material batch
Longitudinal reversion, %	BDS EN ISO 2505	≤ 2	≤ 2
Pendulum impact strength, %	ISO 9854-1 ISO 9854-2	< 10	< 10
Determination of opacity, % of light	BDS EN ISO 7686	< 0,2 Confirms	< 0,2 Confirms

Head of the CAB

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