



**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

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**CERTIFICATE  
OF CONFORMITY**

No 07-HYPBCПCРБ-20.5



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

**Plastic pipes and made-up (glued) fittings of polyethylene (PE-HD) pipes and polypropylene (PP) plastic pipes structured-wall (smooth inner and profiled external surface) for use only buried underground outside the building structure (application area code "U"), also for use both buried underground within the building structure and outside the building (application area code "UD") under the ECOPAL trademark with nominal size DN / OD: 1<sup>st</sup> group ≤ 200 mm, 2<sup>nd</sup> group: > 200 and ≤ 500 mm; 3<sup>rd</sup> group > 500 and ≤ 1200 mm (load SN 4; SN 6; SN 8; SN 10)**

**put up in the range, working pressure and dimensions according to Annex 1 of this certificate and declared characteristics according to Annexes 2 and 3 of this certificate**

placed on the market by

**SIDEL INDUSTRIAL LTD**

**205 Aleksandar Stamboliyski Buld., Sofia, Bulgaria**

and produced at

**POLI ECO HELLAS S.A.**

**Industrial Block 13, Industrial Area of Serres 62121, Serres, Greece**

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

***BDS EN 13476-3:2007 +A1:2009; BDS EN 13476-3:2007+A1:2009/NA:2015***

and

**Order No ПД-02-14-1329/ 03.12.2015 of the Minister of Regional Development and Public Works, p.11 and p.12 of Annex 2**

This certificate is first issued on 04<sup>th</sup> August 2020 and will remain valid until 03<sup>rd</sup> August 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, 04<sup>th</sup> August 2020

This Certificate includes 3 Annexes which are an integral part of it.





**PIPE RANGE and DIMENSIONS**  
**of polyethylene (PE-HD) and polypropylene (PP) pipes as well as polyethylene (PE-HD) fittings**  
 produced by **POLI ECO HELLAS S.A.**,  
 included in the Certificate scope

**1. Polyethylene and polypropylene pipes**

<i>Pipe range</i>	<i>Mean outside diameter DN/OD (mm)</i>	<i>Mean inside diameter DN/OD (mm)</i>
Pipes of PE-HD	110; 125; 160; 200; 250; 315; 350; 400; 465; 500; 630; 700; 800; 930; 1000; 1200	93; 108; 135; 176; 218; 273; 300; 344; 400; 427; 500; 533; 600; 690; 800; 853; 1025
Pipes of PP	110; 125; 160; 200; 250; 315; 350; 400; 465; 500; 630; 700; 800; 930; 1000; 1200	93; 108; 135; 176; 218; 273; 300; 344; 400; 427; 500; 533; 600; 690; 800; 853; 1025

**2. Made-up (glued) fittings - produced by cutting and gluing of ready-made polyethylene pipes (PE-HD)**

<b>Fittings range</b>	<b>Diameter (mm)</b>
Bends 30 <sup>0</sup> ; 45 <sup>0</sup> ; 60 <sup>0</sup> ; 90 <sup>0</sup>	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200
Tee 90 <sup>0</sup>	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200
Branch 45 <sup>0</sup>	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200
Reducing branches 45 <sup>0</sup> ; 90 <sup>0</sup>	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200
Reducer	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200
Coupler	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200
Back valve	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200
Cap with female thr).	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200
End cap with male thr.	110; 125; 160; 200; 250; 315; 400; 500; 630; 800; 1000; 1200





**DECLARED PERFORMANCE**  
**of polyethylene (PEHD) and polypropylene (PP) pipes**  
**produced by POLI ECO HELLAS S.A.,**  
**included in the scope of the Certificate**

Characteristic	Test method	Performance		
		Dimension group 1 ≤ 200 mm	Dimension group 2 >200mm and ≤500mm	Dimension group 3 500mm and ≤ 200mm
Appearance and colour	Visually	Confirm to p.6 of BDS EN 13476-1	Confirm to p.6 of BDS EN 13476-1	Confirm to p.6 of BDS EN 13476-1
Geometrical characteristics, - Mean outside diameter DN/OD mm - Mean inside diameter DN/OD mm	BDS EN ISO 3126	Conform to the threshold levels, according to Tables 5,6 and 7 of BDS EN 13476 -3	Conform to the threshold levels, according to Tables 5,6 and 7 of BDS EN 13476 -3	Conform to the threshold levels, according to Tables 5,6 and 7 of BDS EN 13476 -3
Melt mass-flow rate (pipe sample)	BDS EN ISO 1133-1	Maximum difference of 20% compared to the melt flow rate of the raw material and the pipe (incl. for each of the layers)	Maximum difference of 20% compared to the melt flow rate of the raw material and the pipe (incl. for each of the layers)	Maximum difference of 20% compared to the melt flow rate of the raw material and the pipe (incl. for each of the layers)
Resistance to external blows by the round-the-clock method at 0° C	BDS EN 744	TIR ≤ 10 %	TIR ≤ 10 %	TIR ≤ 10 %
Resistance to external blows by the staircase method at - 10° C	BDS EN 1411	*	*	*
Ring stiffness	BDS EN ISO 9969	≥ from the corresponding SN	≥ from the corresponding SN	≥ from the corresponding SN
Ring flexibility 30 (RF 30)	BDS EN ISO 13968	30 % of $d_{em}$	30 % of $d_{em}$	30 % of $d_{em}$
Resistance to heating (oven test)	ISO 12091	No delamination, cracks and bubbles	No delamination, cracks and bubbles	No delamination, cracks and bubbles

\* No performance determined





**DECLARED PERFORMANCE**  
of **made-up polyethylene (PE-HD) fittings**  
produced by **POLI ECO HELLAS S.A.**,  
included in the scope of the Certificate

<b>Characteristic</b>	<b>Test method</b>	<b>Performance</b>
Appearance and colour	Visually	Confirm to p. 6 of BDS EN 13476-1:2008
Geometrical characteristics	BDS EN ISO 3126	Confirm to Table 5 and p. 7.2.5 of BDS EN 13476-3:2007+A1:2009
Effects of heating	BDS EN ISO 580	Confirm to Tables 9, 11 and 13 and to BDS EN 13476-3: 2007+A1:2009
Watertightness	EN 1053	No leakage

**Head of the CAB**

Res.Assoc. Eng. Victoria Vassileva Ph.D.

**General Manager of NISI Ltd**

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