NATIONAL DECLARATION OF PERFORMANCE

N° 7

1. Name and trade name of the construction product: Structured-wall polypropylene pipes
Pragma DN/OD 110, DN/OD 160, DN/OD 200, DN/OD 250, DN/OD 315, DN/OD 400, DN/OD 500, DN/OD 630
Pragma+ DN/ID 200, DN/ID 250, DN/ID 300, DN/ID 400, DN/ID 500, DN/ID 600, DN/ID 800, DN/ID 1000
2. Identification of the type of the construction product:
PP Rura kanal.DN/OD SN8 PP Rura kanal.DN/ID SN8
PP Rura kanal. +16 DN/OD PP Rura kanal. +16 DN/ID
3. Intended use or uses: for non-pressure underground drainage and sewerage, intended to be used buried underground outside the building structure (application area code "U")
4. Name and address of the manufacturer and production site: Pipelife Polska S.A. Kartoszyno ul. Torfowa 4, 84-110 Krokowa, Production Plant Strzałków
5. Name and address of the authorised representative, where applicable: not applicable
6. National system applied for assessment and verification of constancy of performance: 4
7. National technical specification:
7a. Polish Standard: PN-EN 13476-3:2018-05 "Plastics piping systems for non-pressure underground drainage and sewerage. Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE). Specifications for pipes and fittings with smooth internal and profiled external surface and the system, Type B"
Name of accredited certification body, number of accreditation and number of national certificate or name of accredited laboratory/laboratories and number of accreditation: not applicable
7b. National Technical Assessment: not applicable
Technical Assessment Body/ National Technical Assessment Body: not applicable
Name of accredited certification body, number of accreditation and number of certificate: not applicable
8. Declared Performance:

Essential characteristics of the construction product for the intended use or uses	Declared Performance	Remarks
Resistance to internal pressure	No failure during the test period	The test carried out in the form of a solid wall pipe made from the relevant extrusion material, test conditions acc.to PN-EN 13476-3:2018-05, clause 4.3.2
Melt mass-flow rate (MFR-value)	MFR ≤ 1,5 g/10 min	The test of material , test conditions acc.to PN-EN 13476-3:2018-05, clause 4.3.2
Thermal stability, OIT	OIT ≥ 8 min	The test of material , test conditions acc.to PN-EN 13476-3:2018-05, clause 4.3.2
Appearance	Visible surfaces of pipes are smooth, clean and free from grooving, blistering, visible impurities or pores, pipe ends are cleanly cut square to the axis of the pipe.	
Colour	The inner and outer layer of pipes is coloured throughout.	
Geometrical characteristics	Acc. to pipe marking DN/OD 110, DN/OD 160, DN/OD 200, DN/OD 250, DN/OD 315, DN/OD 400, DN/OD 500, DN/OD 630 DN/ID 200, DN/ID 250, DN/ID 300, DN/ID 400, DN/ID 500, DN/ID 600, DN/ID 800, DN/ID 1000	Dimensional tolerances acc. to PN-EN 13476-3:2018-05, clause 7.2 , Table 5
Physical characteristics	Resistance to heating - Oven test: no delaminations, cracks or bubbles	Test conditions acc.to PN-EN 13476-3:2018-05, clause 8.2.1
Mechanical characteristics	Ring stiffness: SN8: ≥8kN/m^2 SN16: ≥16 kN/m^2	Test conditions acc.to PN-EN 13476-3:2018-05, clause 9.1.1
	Impact strength 0°C: TIR ≤ 10 %	Test conditions acc.to PN-EN 13476-3:2018-05 clause 9.1.1 (Round the clock method)
	Impact strength at – 10°C: H_{50} ≥1000mm , no break below 500 mm	For pipes marked with ice crystal ❄ (Staircase method)
	Ring flexibility 30: During the test: a) no decrease of the measured force; b) no cracking in any part of the wall structure. After the test: c) no wall delamination except possible delamination between external and internal wall of double wall pipes occurring in reduced welding zone in the ends of the test piece. d) no other types of rupture in the test piece; e) no permanent buckling in any part of the structure of the pipe wall including depressions and craters in any direction.	Test conditions acc.toPN-EN 13476-3:2018-05 clause 9.1.1
	Creep ratio: Y ≤ 4	Test conditions acc.to PN-EN 13476-3:2018-05 clause 9.1.1 (at 2 years extrapolation)
Tightness	Tightness of elastomeric ring seal joint: no leakage	Test conditions acc.to PN-EN 13476-3:2018-05, clause 10

9. The performance of the product identified above is in conformity with all declared performance in point 8. This national declaration of performance is issued in accordance with the act on construction products dated 16 April 2004 under the sole responsibility of the manufacturer.

Signed for and on behalf of the manufacturer by:

Katarzyna Korszeń , Quality Manager
(name and function)

Kartoszyno, 2018-06-11
(place and date of issue)

Katarzyna Korszeń
Quality Manager
Pipelife Polska S.A

(signature)