NATIONAL DECLARATION OF PERFORMANCE

N° 22

1. Name and trade name of the construction product: Structured-wall polypropylene Pragma fittings

KZ DN/OD Kolano kanal. PRAGMA: 15°, 30°, 45°, 90° DN/OD: 250, 315, 400, 500, 630; DN/OD 200 90°
KZ DN/OD Trójnik kanal. PRAGMA: 45° DN/OD: 315/250, 400/160, 400/200, 400/250, 400/315, 500/160, 500/200, 500/315, 630/200, 630/ 315, 630/500
KZ DN/OD Trójnik kanal. PRAGMA: 90° DN/OD: 160/160, 200/200, 500/400
KZ DN/OD Redukcja kanal. PRAGMA: DN/OD: 250/200, 315/200, 315/250, 400/250, 400/315, 500/315, 500/400, 630/500
KZ DN/OD Nasuwka kanal. PRAGMA: DN/OD: 250, 315, 400, 500, 630
KZ DN/OD Łącznik kanal. PRAGMA: DN/OD: 250, 315, 400, 500, 630
KZ DN/OD Pierścień z uszczelką A kanal. PRAGMA: DN/OD: 160, 200, 250, 315, 400, 500
KZ DN/OD Złączka do kiel. PVC PRAGMA: DN/OD: 250, 315, 400, 500
KZ DN/OD Adaptor kanal. bosy k. PRAGMA: DN/OD: 200, 250, 315, 400

KZ DN/ID Kolano kanal. PRAGMA: 15°, 30°, 45°, 90° DN/ID: 200, 250, 300, 400, 500, 600
KZ DN/ID/ID Trójnik kanal. PRAGMA: 45° DN/ID: 200/200, 250/200, 300/200, 400/200, 400/300, 500/200, 500/300, 500/400, 600/300, 600/400
KZ DN/ID/ID Trójnik kanal. PRAGMA: 90° DN/ID: 200/200, 300/200, 300/250, 400/200, 500/300, 600/400
KZ DN/ID/GŁ Trójnik kanal. PRAGMA: 45° DN/ID / DN/OD: 200/160, 250/160
KZ DN/ID/OD Trójnik kanal. PRAGMA: 45° DN/ID / DN/OD: 300/160, 300/200, 300/250, 400/160, 400/200, 400/250, 500/160, 500/200, 500/250, 600/160, 600/200, 600/250, 600/500
KZ DN/ID/OD Trójnik kanal. PRAGMA: 90° DN/ID / DN/OD: 300/200, 400/160, 400/200, 400/250, 400/315, 500/200, 500/315, 600/200, 600/315, 600/400
KZ DN/ID Redukcja kanal.PRAGMA: DN/ID: 200/300 k/k, Mufa 250/200, 300/250 bk/k, 400/300, 500/400, 600/400, 600/500
KZ Redukcja kanal. PRAGMA: DN/ID / DN/OD: 200/160 ID/OD EUR., 200/160 ID/OD K.O.
KZ DN/ID Nasuwka kanal. PRAGMA: DN/ID 200, 250, 300, 400, 500, 600, 800, 1000
KZ DN/ID Łącznik kanal. PRAGMA: DN/ID 200, 250, 300, 400, 500, 600, 800, 1000
KZ DN/ID Korek kanal. PRAGMA: DN/ID 200, 250, 300, 400, 400 z mufą, 500, 600, 800, 1000
KZ DN/ID Adaptor kanal. PRAGMA: DN/ID: 300, 400
KZ Adaptor kanal. PRAGMA: DN/ID: 200 ID/OD EUR., 200 ID/OD K.O., 250 ID/OD EUR., 250 ID/OD K.O.
KZ Złączka kanal. PRAGMA:
- ID/GL: DN/ID / DN/OD: 300/315
- ID/OD: DN/ID / DN/OD: 400/315, 400/400, 400/400 typ CZO, 500/500 k/bk

2. Identification of the type of the construction product: polypropylene sewage fittings (bends, branches, others) PP, SN8
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 Kartoszyno
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 fittings are smooth, clean and free from grooving, blistering, visible impurities or pores, fittings ends are cleanly cut square to the axis of the fitting	
Colour	The inner and outer layer of pipes is coloured throughout.	
Geometrical characteristics	Acc. to fittings marking DN/OD 110, DN/OD160, 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	Effect of heating:the depth of cracks, delamination or blisters are not more than 20% of the wall thickness around the injection points. No part of the weld line is open to a depth of more than 20% of the wall thickness	Only applicable to injection moulded fittings and injection moulded components for fabricated fittings
Mechanical characteristics	Ring stiffness: SN8	Test conditions acc.to PN-EN 13476-3:2018-05, clause 9.2
	Impact test 0°C: no cracks through the wall; jumped off sealing elements are able to be restored in correct position manually	Test conditions acc.to PN-EN 13476-3:2018-05 clause 9.2
	Mechanical strength or flexibility: no signs of splitting, cracking, separation and/or lekage	Test conditions acc.to PN-EN 13476-3:2018-05 clause 9.2
Tightness	Tightness of elastomeric ring seal joint: no leakage	Test conditions acc.to PN-EN 13476-3:2018-05, clause 10
	Water tightness: no leakage	Test conditions acc.to PN-EN 13476-3:2018-05, clause 10. Only for fabricated fittings made from more than one piece

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)