

NATIONAL DECLARATION OF PERFORMANCE
No. 1/05/2024

1. Name and trade name of the construction product:
DRAINAGE FITTINGS AND CORRUGATED DRAINAGE PIPES MADE OF
POLYPROPYLENE (PP)

Table

Product Group	Inner diameter (mm)	Angle(°)	Wall thickness (mm)
Drainage Tees	50/50	45	1,8
	50/50	90	1,8
	65/50	45	1,9 - 1,8
	65/50	90	1,9 - 1,8
	65/65	45	1,9
	65/65	90	1,9
	80/50	45	1,9 - 1,8
	80/50	90	1,9 x 1,8
	80/65	45	1,9
	80/65	90	1,9
	80/80	90	1,9
	80/80	45	1,9
	100/50	45	2,2 - 1,8
	100/65	45	2,2 - 1,9
	100/65	90	2,2 - 1,9
	100/80	45	2,2 - 1,8
	100/50	90	2,2
	100/80	90	2,2
	100/100	90	2,2
	100/100	45	2,0
	125/50	90	2,8
	125/65	90	2,8 - 1,9
	125/80	45	2,8 - 1,9
	125/80	90	2,8 - 2,2
	125/100	90	2,8 - 2,2
	125/100	45	2,8 x 2,2
	125/80	45	2,8 - 1,9
	125/125	45	2,8
	125/125	90	2,8
	160/100	45	3,2 - 2,3
	160/125	45	3,2 - 2,8
	160/160	45	3,2
	160/100	90	2,7 x 3,2
200/100	90	3,6 - 2,8	
200/125	45	3,6 - 2,8	
200/125	90	3,6 - 2,8	
200/160	45	3,6 - 3,2	
200/160	90	3,6 - 3,2	
200/200	45	3,6	
200/200	90	3,6	
160/160	90	3,2	

Saddle Drainage Tees	125/125	90	2,8
	160/125	90	3,2 x 2,8
	160/100	90	3,2 x 2,7
	100/100	90	2,3
	100/80	90	2,3 x 1,8
	100/65	90	2,2
	100/50	90	2,3
Drainage Elbows	160/125	90	3,2 - 2,8
	160/100	90	3,2 - 2,2
	200	90	3,6
	160	90	3,2
	125	90	2,8
	100	90	2,0
	100/80	90	2,0 x 1,9
	100/50	90	2,0 x 1,8
	80	90	2,0
	65	90	1,9
Drainage Reducers	50/65	-	1,8 - 1,9
	50/80	-	1,8 - 1,9
	80/65	-	1,9
	100/65	-	2,2 - 1,9
	80/100	-	1,6 x 2,2
	50/100	-	1,9 x 2,2
	80/110	-	1,9 x 3,3
	100/110	-	2,1 x 3,3
	100/110 drain-gutter	-	2,2 - 2,7
	80/110 drain-gutter	-	2,2 - 2,7
	160/160	-	3,0 x 3,2
	125/160 WZ	-	2,8 x 3,0
	125/160 ZZ	-	2,8 x 3,0
	125/100 WW	-	2,8 x 3,3
	125/100 ZZ	-	2,8 x 3,3
	125/100	-	2,7
	125/125	-	2,8
	125/110	-	3,3 x 2,8
	160 x 100	-	3,2 x 2,0
	100/160 drain-gutter	-	3,2 x 2,0
	125/160 drain-gutter	-	3,2 x 2,0
	160/110	-	3,2 - 2,7
	160/160	-	3,0
	160/200	-	3,0 x 3,5
	100/100 drain-gutter	-	2,2
	100/92 drain-gutter	-	2,2
	80/100 drain-gutter	-	1,6 x 2,2
	80/92 drain-gutter	-	2,1
	80/80 drain-gutter	-	2,1
	Overflow and infiltration end cap	100	-
	Drain end cap 65	-	1,9

Drain end cup with a grate	Drain end cap 80	-	1,9 x 3,3
	Drain end cap 100	-	2,1 x 3,3
	Drain end cap 200	-	3,6
	Drain end cap 125/125	-	2,8
	Drain end cap 125/110	-	2,8 x 3,3
	Drain end cap 160/160	-	3,0 x 3,2
	Long drain end cup with a grate 100/110	-	2,2 x 2,7
	Long drain end cup with a grate 80/110	-	1,9 x 2,7
Drain Couplers	50	-	1,8
	65	-	1,9
	80	-	2,1
	100	-	2,2
	125	-	3,3
	160	-	2,6
	200	-	3,0
Drain Caps	50	-	1,8
	65	-	1,9
	80	-	1,9
	100	-	2,0
	125	-	3,2
	160	-	2,9
	200	-	3,2
Drain Caps with a grate	200	-	3,6
	160	-	2,0
	125	-	2,8
	100	-	2,0
	80	-	1,9
	65	-	1,9
	50	-	1,8
Exhaust Outlets	100	-	2,7
Drainage cross fittings	200/100/100	45	3,6 - 2,2
	200/125/125	45	3,6 - 3,2
	200/160/160	45	3,6 - 2,8
	200/200/200	45	3,6
	200/100/100	90	3,6 - 2,2
	200/125/125	90	3,6 - 3,2
	200/160/160	90	3,6 - 2,8
	200/200/200	90	3,6
	125/125/125	90	2,8 - 2,2
	125/100/100	90	2,8 - 2,2
	125/80/80	90	2,8 - 2,2
	100/100/100	90	2,3
	100/80/80	90	2,3 x 2,0
	100/80/50	90	2,3 x 2,0 x 1,8
	100/50/50	90	2,3 x 1,8
	100/65/65	90	2,3 - 1,9
	80/80/80	90	1,9
80/50/50	90	1,9 x 1,8	

	80/80/50	90	1,9 x 1,8
	50/50/50	90	1,8
Drainage Inspection Chambers	100	-	2,8
	80	-	2,8
Float-controlled drainage protection	100	-	2,8
Drainage Pipe	50/1,2	50	1,2
	80/1,5	80	1,2
	100/1,5	100	1,2

Maximum lengths for drainage pipe runs

Nominal outer diameter d_n [mm]	50	80	100
Length [m] (maximum)	200	100	75

2. Designation of the type of construction product: DRN

3. Intended Use(s):

Used for transporting/removing/storing non-potable water for the construction of flood protection structures (excluding: flood gates and storm gates), breakwaters, and coastal protection structures, as well as for water retention constructions and land reclamation devices. Drainage fittings and drainage pipes offered by P.P.U.H. "Agro-Dren" D.L. Bąk are specifically intended for the following drainage systems and drainage applications.:

- agricultural areas
- traffic areas, including roads, parking lots, and storage yards (e.g. water drainage, roadside reclamation, and soil drainage within the road corridor)
- gardens
- leisure and service areas (entertainment and recreational areas, parks, stadiums, etc.)

Drainage fittings and pipes may only be used in accordance with the conditions specified in the technical design and in Polish Standards regarding drainage. The installation of drainage systems should be carried out by a specialized company under the supervision of an authorized inspector.

4. Name and address of the manufacturer's registered office and place of manufacture of the product:

Przedsiębiorstwo Produkcyjno-Usługowo-Handlowe "AGRO-DREN" D.L. Bąk, ul. Handlowa 1, 35-103 Rzeszów, Podkarpackie Province, VAT No. 813-33-13-920

5. Name and registered office address of the authorized representative, if appointed:

Not Applicable

6. National system used for the assessment and verification of performance characteristics:

System 4

7. National Technical Specification:

7a. Polish Product Standard: Not applicable

Name of the accredited certification body, accreditation number and national certificate number or name of the accredited laboratory/laboratories and accreditation number. Not applicable

7b. National Technical Assessment

ITP-PIB-KOT-2024/0003 Edition 3 - DRAINAGE FITTINGS AND CORRUGATED

POLYPROPYLENE (PP) DRAINAGE PIPES

Technical Assessment Body. National Technical Assessment Body:

Institute of Technology and Life Sciences in Falenty

Name of accredited certification body, accreditation number, and certificate number:

Not applicable

8. Declared Performance Characteristics:

Essential characteristics of the construction product for the intended use(s)	Declared performance characteristics	Notes
Dimension checks: - deviation of internal diameter - wall thickness – e2min - ovality	0 ÷ 2mm according to the Table ± 10% of nominal diameter	Indicates that the dimension is within the tolerance limits
Resistance to external impacts	Impact Area A	
Circumferential stiffness	≥4 KN/m ²	
Tensile strength	≤10 %	
Vicat softening point	≥90°C	
Visual evaluation of changes under the influence of heating	Cracks, delamination, or bubbles around the injection points should not exceed 20% of the wall thickness. Joint lines should not be open to a depth exceeding 20% of the wall thickness.	
Joint Strength	- elongation ≤ 10 % - no loosening within 10 minutes under a force of 150 N (for fittings with a diameter of 50 mm) or 200 N (for fittings with a diameter greater than 50 mm)	
Dimension checks: - deviation of internal diameter	±10% of nominal diameter	This means that the ovality should not exceed 10%.
Resistance to external impacts (Impact Area A)	TIR ≤ 10	
Circumferential stiffness -SN9 -SN12 -SN16	≥ 9 ≥ 12 ≥ 16	
Impact tensile strength	No cracks	
Appearance and colour checks	-internal and external surfaces of the pipes are smooth, clean, free from bubbles, foreign inclusions, and other surface defects -colour uniform in terms of shade and intensity over the entire surface	

9. The performance characteristics of the product specified above comply with all the declared performance characteristics listed in point 8. This national declaration of performance is issued in accordance with the Act of 16 April 2004, on Construction Products, under the sole responsibility of the manufacturer..

Signed on behalf of the Manufacturer:



Lucjan Bąk

WŁAŚCICIEL

(name and position)

08 05 2024

(place and date of issue)


Przedsiębiorstwo Produkcyjno-Usługowo-Handlowe
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