

TECHNICAL DATA SHEET



EVORAIN PP SN8

DN/OD series stormwater gravity drainage pipes, type B, with corrugated external and smooth internal surface

According to:
EN 13476-3,
Type B



PRODUCT DESCRIPTION

EVORAIN PP (polypropylene) double-wall type B pipe with ring stiffness SN8 is equipped with welded on solid PP coupling, but at the other end — oil resistant rubber sealing ring is installed (placed) in the first full groove of the corrugation. The sealing ring is resistant to oil according to the requirements of EN 681-2 p.5.10 and it ring grants a hermetic seal with a pressure rating of <0,5 bar (for coupling area). Due to corrugated outside layer construction pipe has a high impact resistance. Smooth internal wall of the pipe ensure excellent hydraulic properties. Pipe outer surface color is black, but internal surface is white.

Sealing ring material: EPDM (ethylene-propylene-diene rubber (terpolymer)).

Pipe produced according to standard: EN 13476-3

Sealing rings conform to standard: EN 681-1/A3

Sealing rings grants a hermetic seal conform to standard:

EN ISO 13259 Condition B un C and EN ISO 13254



Ring stiffness: \geq SN8 (kN/m²)

Ring flexibility: RF30

Impact strength at -10°C:

❄ (Ice crystal)

APPLICATION AREA

EVORAIN pipes are best suited for stormwater gravity drainage systems. Intended depth of construction for pipes with ring stiffness SN8 are 0.8 — 6.0 [m]. Pipe construction is recommended according to traffic load groups defined in EN 124 (intended for 1., 2., 3., 4. groups). Conform to standart EN 13476-3 classification pipes DN/OD 160-315 mm are marked with code UD (structured-wall pipes and fittings, which are intended to be used buried underground outside the building structure) and pipes DN/OD 400 mm are marked with code U (structured-wall pipes and fittings, which are intended to be used buried underground both outside and within the building structure).

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PRODUCT DIMENSIONS

Nominal size DN/OD [mm]	160	200	250	315	400
Inner diameter ID [mm]	138.9	174.6	215.9	274.1	349.8
Length, [m]	3 / 6				

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PRODUCT PARAMETRES

Pipe physical and mechanical properties

Parameter	Value	Test method
Material	Polypropylene (PP)	
Ring stiffness, SN, kN/m ²	≥8	EN ISO 9969
Ring flexibility RF, at 23°C and RH50 %	At 30% sample deformation without changes in pipe structure (compiles with class RF30)	EN ISO 13968
Impact strenght at -10°C (staircase method)	H ₅₀ ≥1000 mm H _{min} =500 mm (no break)	EN ISO 11173
Creep ratio, at 23°C /1008 h	at 2 years extrapolation ≤ 4	EN ISO 9967
Coefficient of linear expansion	12x10 ⁵ [1/°C]	CEN/TS 15223 Table 2

Sealing ring physical and mechanical properties

WCL type rubber sealing ring

Material	EPDM	ISO 1629
Durability in low temperature, at t= -25°C	72 h	ISO 815
	168 h	ISO 3387
Chemical resistance	pH2<pH<pH12	ISO/TR 7620
Permeability pressure	<0,5 bar	EN ISO 13254 EN ISO 13259 Condition B and C
Oil resistance*	Conforms	EN 681-2

*Oil resistant seal acc. to requirements of EN 681-2 p.5.10; conformity determined by Volume change in oil test acc. to ISO 1817



Ring stiffness: **≥SN8 (kN/m²)**

Ring flexibility: **RF30**

Impact strength at -10°C:

❄ (Ice crystal)

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