

TECHNICAL DATA SHEET



EVOSAN RF PP SN16

DN/OD series utility sewerage system pipes, type B, with profiled (corrugated) external and smooth internal surface

According to:
EN 13476-3,
Type B

PRODUCT DESCRIPTION

EVOSAN PP (polypropylene) double-wall type B pipe with nominal ring stiffness SN 16. One end of the pipe is equipped with welded on solid PP coupling, but at the other — a rubber sealing ring is installed (placed) in the first full groove of the corrugation. The supplied sealing 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 colour is dark brown, but internal surface is white.

Sealing ring material: EPDM (ethylene-propylene-diene rubber (terpolymer)). On request available a NBR (acrylonitrile-butadiene rubber) sealing ring.

Pipe produced according to standard: EN 13476-3

Sealing rings conformity: EN 681-1/A3, EN ISO 13259 Condition B un C and EN ISO 13254

APPLICATION AREA

Owing to SN16 class, EVOSAN-RF pipe may be used for installation works in zones/ places with large traffic loads and places with limits of installation below 0.7 m or above 5.0 m, for example:

- Airport territory construction;
- Harbour and dock territory construction;
- Highway construction;
- Tunnel construction;
- Railroad construction.

Storage of sealing rings according to standards ISO 2230 and EN 681-1/A3 D.

Installation performance in accordance with standard EN 1610; CEN/TR 1046.

Ring stiffness: \geq SN16 (kN/m²)

Ring flexibility: RF30

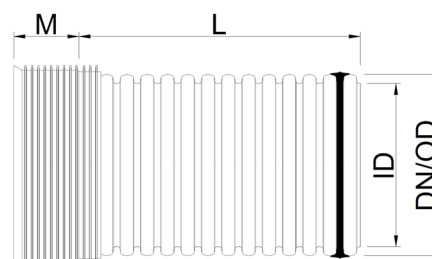
Impact strength at -10°C:

❄️ (Ice crystal)

Open product

PRODUCT DIMENSIONS

DN/OD, mm	ID, mm	L, m	M, mm
160	138,9	6	85
200	174,6		88,6
250	215,9		94,5
315	274,1		108
400	349,8		136,5



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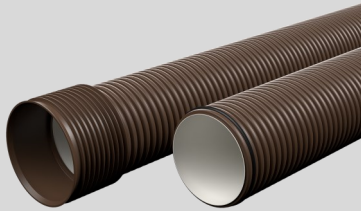


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PRODUCT PARAMETRES



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Ring flexibility: RF30

Impact strength at -10°C:

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Open product

Pipe physical and mechanical properties

Parameter	Value	Test method
Material	Polypropylene (PP)	
Ring stiffness, SN, kN/m ²	≥ 16	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 \geq 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	$\leq 0,5$ bar	EN ISO 13254 EN ISO 13259 Condition B and C

WG/WCO type rubber sealing ring

Material	NBR	ISO 1629
Oil resistance, Oil No. 1 and Oil No. 3 at t= 70°C	72 h	EN 681-1/A3
Chemical resistance	pH2 < pH < pH12	ISO/TR 7620
Permeability pressure	$\leq 0,5$ bar	EN ISO 13254 EN ISO 13259 Condition B and C