

# TECHNICAL DATA SHEET



## EVOSAN RF PP SN16

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

According to:  
EN 13476-3,  
Type B

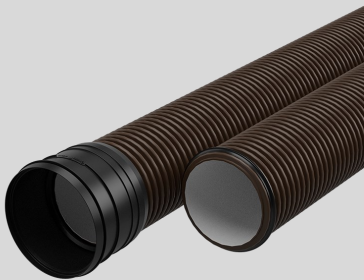
### PRODUCT DESCRIPTION

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 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 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)).

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/m<sup>2</sup>)

Ring flexibility: RF30

Impact strength at -10°C:

❄ (Ice crystal)

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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 <sup>2</sup>	≥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 <sub>50</sub> ≥1000 mm H <sub>min</sub> =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 <sup>-5</sup> [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: **≥SN16 (kN/m<sup>2</sup>)**

Ring flexibility: **RF30**

Impact strength at -10°C:

❄️ (Ice crystal)

Open product