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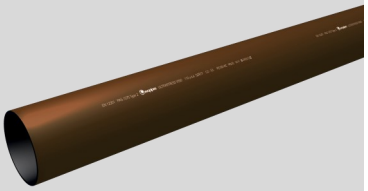
TECHNICAL DATA SHEET

ULTRASTRESS VISIO

Wastewater pressure pipes from PE100-RC

According to PAS 1075 Type 2
Conforms: EN 12201-2



PE100-RC

According to PAS 1075:

Type 2

Open product

PRODUCT DESCRIPTION

ULTRASTRESS VISIO wastewater pressure pipes are made from PE100-RC material featuring brown VISIO layer (10% of wall thickness). PE100-RC material pipes are resistant to long term expansion of cracks, scratching and point type loads. Point type loads are especially common during assembly of the pipelines using trenchless installation methods (for instance, as a result of friction against the stones that are present in the soil). In case of a point type load, tension and plastic deformations are produced in the material, which may cause cracks in the internal surface of the pipe. VISIO layer helps to identify the pipe damage that has occurred during installation. Max allowed depth of pipe damage equals to the thickness of VISIO layer, i.e. 10% of wall thickness. In the case of more significant damage to the pipe, uncovering the black inner layer, decision on further use of the pipe must be made.
Material: High density polyethylene (HDPE) with brown VISIO layer.
Pipes are manufactured according to EN 12201, PAS 1075 specifications.

APPLICATION AREA

ULTRASTRESS VISIO pipes are designed for wastewater pressure systems, with recommended installation methods of pulling in the site of the old pipe according to EN 12889, EN 14457 and in the cases with the reuse of the old soil.

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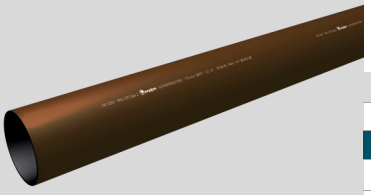

PE100-RC

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PRODUCT DIMENSIONS

Pipe dimensions conform to EN 12201-2 specifications. Pipe nominal pressure according to EN12201-2 (with C=1,25 at temperature 20 °C) PN6 bar for SDR 26, PN10 bar for SDR 17 pipes and PN16 bar for SDR 11 pipes.

Pipe dimensions			Length
d_n x e_n, mm			L, m
SDR 26	SDR 17	SDR 11	
-	-	20 x 2.0	30/50/100/150/200/300/400/500/1000/2000
-	-	25 x 2.3	30/50/100/150/200/300/400/500/1000/2000
-	32 x 2,0	32 x 3,0	6/30/50/60/70/100/150/200/300/400/500/1000/2000
40 x 1,8	40 x 2,4	40 x 3,7	6/50/100/150/200/300/400/500/1000/2000
50 x 2,0	50 x 3,0	50 x 4,6	6/50/100/150/200/300/400/500/1000
63 x 2,5	63 x 3,8	63 x 5,8	6/50/100/150/200/300/400/500
75 x 2,9	75 x 4,5	75 x 6,8	6/50/100/150/200/300/400/500
90 x 3,5	90 x 5,4	90 x 8,2	6/12/13,4/50/100/150/200
110 x 4,2	110 x 6,6	110 x 10,0	6/12/13,4/50/100/150/200
125 x 4,8	125 x 7,4	125 x 11,4	6/12/13,4/50/100
160 x 6,2	160 x 9,5	160 x 14,6	6/12/13,4/18/20/50/100
180 x 6,9	180 x 10,7	180 x 16,4	6/12/13,4/18/20/50
200 x 7,7	200 x 11,9	200 x 18,2	6/12/13,4/18/20/50
225 x 8,6	225 x 13,4	225 x 20,5	6/12/13,4/18/20
250 x 9,6	250 x 14,8	250 x 22,7	6/12/13,4/18/20
280 x 10,7	280 x 16,6	280 x 25,4	6/12/13,4/18/20
315 x 12,1	315 x 18,7	315 x 28,6	6/12/13,4/18/20
355 x 13,6	355 x 21,1	355 x 32,2	6/12/13,4/18/20
400 x 15,3	400 x 23,7	400 x 36,3	6/12/13,4/18/20
450 x 17,2	450 x 26,7	450 x 40,9	6/12/13,4/18/20
500 x 19,1	500 x 29,7	500 x 45,4	6/12/13,4/18/20
560 x 21,4	560 x 33,2	560 x 50,8	6/12/13,4/18/20
630 x 24,1	630 x 37,4	630 x 57,2	6/12/13,4/18/20
710 x 27,2	710 x 42,1	710 x 64,5	6/12/13,4/18/20
800 x 30,6	800 x 47,2	800 x 72,6	6/12/13,4/18/20
900 x 34,4	900 x 53,3	900 x 81,7	6/12/13,4/18/20
1000 x 38,2	1000 x 59,3	1000 x 90,8	6/12/13,4/18/20
1200 x 45,9	1200 x 71,1	-	6/12/13,4/18/20

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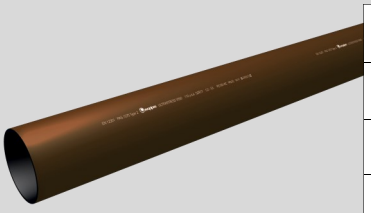

PE100-RC

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PRODUCT PARAMETERS

Parameter	Value	Test method
Material	PE100-RC	PAS 1075
Hydrostatic pressure resistance (80 °C, 5,4 MPa)	>165 h	EN ISO 1167-1 EN ISO 1167-2
Tensile elongation	≥350%	EN ISO 6259-1 EN ISO 6259-3
Resistance to crack growth (80 °C, 4 MPa, 2% Arkopal N-100)	>8760 h	ISO 16770
Resistance to slow crack growth (80 °C, 9.2 bar)	>8760 h	EN ISO 13479
Mass flow rate (MFR) (5 kg, 190 °C, 10 min)	0.3-0,9g	EN ISO 1133
Oxidation induction time (200 °C)	≥20 min	EN ISO 11357-6
Longitudinal reversion (e_n≤16 mm, 110 °C)	≤3%	EN ISO 2505
Chemical resistance	pH 2 ≥ pH ≥ pH 12	ISO/TR 10358

PRODUCT MARKING

Pipe marking

Aspect	Marking
Standard	EN 12201
Material requirements and type	PAS 1075 Type 2
Manufacturers information	EVOPIPES
Product identification	ULTRASTRESS VISIO
Pipe dimensions (diameter x wall thickness)	e.g. 110 x 6,6
SDR series	e.g. SDR 17
Material	PE100-RC
Pipe pressure rating (bar)	e.g. PN10
Intended application (P-wastewater)	P
Date of production (dd/mm/yy)	date
QA organization signature	Nordic Poly Mark