

Technical Data Sheet

STEKON FIBERGLASS PIPE-CULVERTS

Construction of flow-through structures



STEKON fiberglass pipe-culverts are artificial structures designed for letting through constant or periodical water streams under motorroad- and railroad embankments.

Typical application: fiberglass pipe-culverts are used when constructing new flow-through structures or repairing existent structures with operating temperature ranging from -50°C to +60°C.

Fiberglass pipe-culverts are to be used for:

- ✓ new construction of flow-through structures under motorroad- and railroad embankments
- ✓ elongation of existent concrete-, ferro-concrete- and corrugated pipes during widening of carriage ways and road reconstruction activities
- ✓ repair of existent pipes by pipe-in-pipe method.

Physical and mechanical properties

Nominal inner diameter, mm DN	D4, mm, not less than		Stiffness class				D4, mm, not less than	Stiffness class	
			SN 5000		SN 10 000			SN 15 000	
	SN 5000	SN 10000	Wall thickness, mm, min	Design weight*, kg/6 m	Wall thickness, mm, min	Design weight*, kg/6 m	SN 15 000	Wall thickness, mm, min	Design weight*, kg/6 m
500	520.3	520.3	10.2	203	10.2	203	521.2	10.6	212
600	620.3	622.9	10.2	247	11.5	278	626.5	13.3	322
700	723.9	725.8	12	242	12.9	369	729.3	14.7	419
800	824	829.8	12	400	14.8	490	832.6	16.3	537
900	926.5	933.4	13.3	501	16.7	626	936.6	18.3	684
1000	1030	1038	15.1	620	19	779	1041.8	20.9	855
1200	1237	1247	18.5	917	23,5	1162	1249.7	24.9	1225
1400	1443	1452	21.4	1248	26	1506	1459.2	29.6	1710
1600	1648	1661	23.9	1599	30.7	2041	1667	33.5	2220
1800	1855	1872	27.7	2115	35.8	2700	1875.4	37.7	2837
2000	2061	2080	30.5	2604	39.9	3364	2083.7	41.9	3519

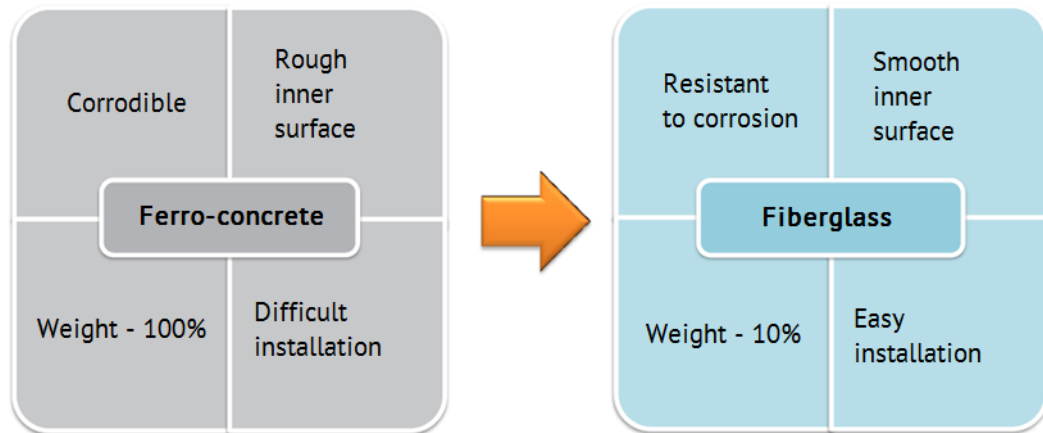
* Standard length of the pipes is 6 m

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Fiberglass pipe-culverts as compared to ferro-concrete pipe-culverts:



Advantages:

- ✓ high corrosive resistance;
- ✓ scuff resistance
- ✓ resistance to climatic effects and aggressive media
- ✓ extended intermaintenance period and total service life
- ✓ no need for arrangement of complex foundations (curved blocks)
- ✓ possible arrangement without culvert heads
- ✓ low weight (6-7 times lighter than ferro-concrete pipes), easy transportation and installation
- ✓ reduced aggregate cost of ownership.

Regulatory documents:

- STO 59589554-005-2012

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