

Design - Guidelines

Calculation - Series 3

TABLE OF FRICTION LENGTHS AND MOVEMENTS

Maximum axial stress is 150 Mpa for single pipes (equivalent $T=60^{\circ}\text{C}$). Maximum axial stress is 150+50 Mpa for double pipes. Temperature difference between supply and return line is 40°C , soil covering 0.6 m; bending radius 3s. Number of full cycles: 1000 cycles for DN 25-65; 250 cycles for DN80-300; 100 cycles for DN 350-900.

Dimensions	Friction force	Friction length	Movement	Length L - bend
	N/m	m	mm	mm
25	1361	26	9	0.6
32	1545	32	12	0.7
40	1548	37	14	0.9
50	1801	44	16	1.1
65	2063	50	18	1.4
80	2334	57	21	1.6
100	3038	63	23	1.7
125	3492	68	25	2.1
150	4049	78	29	2.5
200	5478	85	31	3.2
250	7326	88	33	3.7
300	8577	100	37	4.4
350	10045	94	35	4.8
400	11897	102	38	5.4
450	12046	113	42	5.6
500	14249	107	40	6.0
600	17080	121	45	7.1
700	20152	134	50	8.2
800	23466	145	54	9.2

biosteel a/s

Algade 35, Grønbjerg · DK-6971 Spjald, Denmark
+45 4027 8099 · info@biosteel.dk · www.biosteel.dk