

# Engineering & Technical Data R-8

# Standard Dimensions & Weights of "Thickness Class" DI Pipe

PIPE BARREL				PUSH-ON					MECHANICAL JOINT				
PUSH-ON AND MECHANICAL JOINT				DEFL. ANGLE	LAYING LENGTH				DEFL. ANGLE	LAYING LENGTH			
SIZE	THICK. CLASS	THICK.*	O.D.*		18 FT.		20 FT.			18 FT.		20 FT.	
				WT. PER LGTH†	MAX. DEFL.	WT. PER LGTH†	MAX. DEFL.	WT. PER LGTH†	MAX. DEFL.	WT. PER LGTH†	MAX. DEFL.		
IN.	PSI	IN.	IN.	DEG.	LBS.	IN.	LBS.	IN.	DEG.	LBS.	IN.	LBS.	IN.
4"	51	0.26	4.80	5°	215	19"	—	—	8°-18'	215	21"	—	—
	52	0.29			235		—			240		—	
	53	0.32			250		—			260		—	
	54	0.35			275		—			285		—	
6"	50	0.25	6.90	5°	300	19"	335	21"	7°-7'	305	27"	340	30"
	51	0.28			335		370			340		375	
	52	0.31			365		405			370		410	
	53	0.34			400		440			405		445	
	54	0.37			430		480			435		480	
8"	50	0.27	9.05	5°	430	19"	475	21"	5°-21'	435	20"	480	22"
	51	0.30			475		525			480		530	
	52	0.33			515		575			525		580	
	53	0.36			560		620			565		625	
	54	0.39			605		670			610		675	
10"	50	0.29	11.10	5°	570	19"	630	21"	5°-21'	575	20"	635	22"
	51	0.32			625		690			630		695	
	52	0.35			680		750			685		755	
	53	0.38			730		810			735		815	
	54	0.41			785		870			790		875	
12"	50	0.31	13.20	5°	725	19"	800	21"	5°-21'	730	20"	805	22"
	51	0.34			790		875			795		875	
	52	0.37			855		945			860		950	
	53	0.40			920		1020			925		1020	
	54	0.43			985		1090			985		1095	
14"	50	0.33	15.30	3°	900	11"	995	12"	3°-35'	915	13.5"	1,010	15"
	51	0.36			975		1,080			990		1,095	
	52	0.39			1,050		1,165			1,065		1,180	
	53	0.42			1,125		1,245			1,145		1,265	
	54	0.45			1,200		1,330			1,215		1,345	
16"	50	0.34	17.40	3°	1,050	11"	1,170	12"	3°-35'	1,080	13.5"	1,190	15"
	51	0.37			1,145		1,265			1,165		1,285	
	52	0.40			1,230		1,360			1,250		1,380	
	53	0.43			1,315		1,455			1,335		1,475	
	54	0.46			1,400		1,550			1,420		1,570	
18"	50	0.35	19.50	3°	1,220	11"	1,350	12"	3°-0'	1,245	11"	1,375	12"
	51	0.38			1320		1460			1340		1480	
	52	0.41			1420		1565			1440		1590	
	53	0.44			1520		1675			1535		1695	
	54	0.47			1610		1780			1635		1805	
20"	50	0.36	21.60	3°	1400	11"	1545	12"	3°-0'	1420	11"	1570	12"
	51	0.39			1505		1665			1530		1690	
	52	0.42			1615		1785			1635		1810	
	53	0.45			1720		1905			1745		1930	
	54	0.48			1830		2025			1855		2050	
24"	50	0.38	25.80	3°	1765	11"	1950	12"	2°-23'	1795	9"	1980	10"
	51	0.41			1895		2095			1925		2215	
	52	0.44			2025		2240			2055		2270	
	53	0.47			2155		2385			2180		2410	
	54	0.50			2285		2525			2310		2555	

\* Thickness and O.D. tolerances shall be in accordance with AWWA/ANSI C151/A21.51 and C111/A21.11 respectively.

† Including bell; calculated weight of pipe rounded off to nearest 5 lbs.