



ABADZE (*ah-bahd-zay*)

Means useful in the Potawatomi language.

APPLICATIONS

Conduit and Non-pressure Pipe is high-grade high-density polyethylene (HDPE) pipe designed for non-pressure and conduit applications. It is intended for wire and cable sleeves, drainage, dredging, and other non-pressure systems.

It is **NOT** intended for pressure systems.

CONFORMANCE

- Color & UV Stabilizer: (C) Black with 2% min Carbon Black per ASTM D3350
- Orange stripe comes standard for identification and visibility, but many other colored stripes are available upon request.
- Heat Fusion Joining as per ASTM F2620 and PPI TR-33/TR-41.
- Installation as per PPI PE Pipe Handbook, 2nd ed.

IPS								
Size	OD (in)	DR	11	13.5	17	21	26	32.5
4"	4.5	Min Wall (in)	0.409	0.333	0.265	0.214		
		ID ^c (in)	3.633	3.793	3.939	4.046		
		Lb / Ft ^b	2.307	1.914	1.550	1.268		
6"	6.625	Min Wall (in)	0.602	0.491	0.390	0.315	0.255	0.204
		ID ^c (in)	5.348	5.585	5.799	5.956	6.084	6.193
		Lb / Ft ^b	4.994	4.151	3.354	2.747	2.243	1.811
8"	8.625	Min Wall (in)	0.784	0.639	0.507	0.411	0.332	0.265
		ID ^c (in)	6.960	7.270	7.550	7.750	7.921	8.063
		Lb / Ft ^b	8.468	7.035	5.689	4.658	3.808	3.066
10"	10.75	Min Wall (in)	0.977	0.796	0.632	0.512	0.413	0.331
		ID ^c (in)	8.680	9.060	9.410	9.660	9.874	10.048
		Lb / Ft ^b	13.160	10.930	8.830	7.247	5.905	4.772
12"	12.75	Min Wall (in)	1.159	0.944	0.750	0.607	0.490	0.392
		ID ^c (in)	10.290	10.750	11.160	11.460	11.711	11.919
		Lb / Ft ^b	18.510	15.380	12.430	10.190	8.315	6.709
14"	14	Min Wall (in)	1.273	1.037	0.824	0.667	0.538	0.431
		ID ^c (in)	11.300	11.800	12.250	12.590	12.859	13.086
		Lb / Ft ^b	22.310	18.540	14.980	12.290	10.026	8.092
16"	16	Min Wall (in)	1.455	1.185	0.941	0.762	0.615	0.492
		ID ^c (in)	16.150	13.490	14.000	14.380	14.696	14.957
		Lb / Ft ^b	29.150	24.210	19.580	16.050	13.084	10.564
18"	18	Min Wall (in)	1.636	1.333	1.059	0.857	0.692	0.554
		ID ^c (in)	14.530	15.170	15.760	16.180	16.533	16.826
		Lb / Ft ^b	36.900	30.640	24.760	20.310	16.567	13.364
20"	20	Min Wall (in)	1.818	1.481	1.176	0.952	0.769	0.615
		ID ^c (in)	16.150	16.860	17.510	17.980	18.370	18.696
		Lb / Ft ^b	45.540	37.830	30.580	25.080	20.443	16.494
22"	22	Min Wall (in)	2.000	1.630	1.294	1.048	0.846	0.677
		ID ^c (in)	17.760	18.550	19.260	19.780	20.206	20.565
		Lb / Ft ^b	55.100	45.780	37.000	30.320	24.748	19.979
24"	24	Min Wall (in)	2.182	1.778	1.412	1.143	0.923	0.738
		ID ^c (in)	19.370	20.230	21.010	21.580	22.043	22.435
		Lb / Ft ^b	65.590	54.480	44.020	36.080	29.439	23.769
26"	26	Min Wall (in)	2.364	1.926	1.529	1.238	1.000	0.800
		ID ^c (in)	20.990	21.920	22.760	23.380	23.880	24.304
		Lb / Ft ^b	76.950	63.940	51.670	42.350	34.565	27.887
28"	28	Min Wall (in)	2.545	2.074	1.647	1.333	1.077	0.800
		ID ^c (in)	22.600	23.600	24.510	25.170	25.717	26.304
		Lb / Ft ^b	89.250	74.180	59.930	49.120	40.103	32.887
30"	30	Min Wall (in)	2.727	2.222	1.765	1.429	1.154	0.923
		ID ^c (in)	24.220	25.290	26.260	26.970	27.554	28.043
		Lb / Ft ^b	102.470	85.160	68.810	56.390	46.016	37.111
32"	32	Min Wall (in)	2.909	2.370	1.882	1.524	1.231	0.985
		ID ^c (in)	25.830	26.970	28.010	28.770	29.390	29.912
		Lb / Ft ^b	116.600	96.890	78.270	64.160	52.374	42.255
34"	34	Min Wall (in)	3.091	2.519	2.000	1.619	1.308	1.046
		ID ^c (in)	27.450	28.660	29.760	30.570	31.227	31.782
		Lb / Ft ^b	131.600	109.370	88.370	72.430	59.102	47.692
36"	36	Min Wall (in)	3.273	2.667	2.118	1.714	1.385	1.046
		ID ^c (in)	29.060	30.350	31.510	32.370	33.064	33.782
		Lb / Ft ^b	147.550	122.620	99.080	81.210	66.267	53.782
42"	42	Min Wall (in)	3.818	3.111	2.471	2.000	1.615	1.292
		ID ^c (in)	33.910	35.400	36.760	37.760	38.576	39.261
		Lb / Ft ^b	200.820	166.890	134.850	110.540	90.181	72.778
48"	48	Min Wall (in)		3.556	2.824	2.286	1.846	1.477
		ID ^c (in)		40.460	42.010	43.150	44.086	44.869
		Lb / Ft ^b		217.970	176.130	144.390	117.812	95.074

Physical Properties	Nominal Value*	Test Method
Density	0.960 g/cm ³	ASTM D792
Melt Index (MI) 190°C/2.16kg	0.23 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6kg)	8 g/10 min	ASTM D1238
Tensile Stress @ Yield	3,800 psi	ASTM D638
Tensile Stress @ Break	5,000 psi	ASTM D638
Elongation @ Break	>500 %	ASTM D638
Flexural Modulus (2% secant)	140,000 psi	ASTM D790
Thermal Stability (210°C, OIT)	>30 Minutes	ASTM D3895
Thermal Expansion	1.0 x 10 ⁻⁴ in/in/°F	ASTM D696

Note - These tables represent standard sizes. Other DRs available upon request.

- A. ID: Inside Diameter may vary due to manufacturing tolerances.
- B. Wt / Ft: Weight per foot in pounds may vary due to manufacturing tolerances.

Sovereign Pipe Technologies | sptcpn.com