

Application

Water & Sewer, Mining, Irrigation, oil and gas. Manufactured to Iron pipe sizing (IPS) from ¾" to 48"

CharacteristicsChemical Resistance as per ASTM D2513
Meets and exceeds ASTM D3350 Cell classification PE445574C**Specifications**

- Pipe manufactured and tested to AWWA C901 / C906, ASTM D3035 / F714, ASTM F2160, API15LE, and CSA B137.1 / B137.4 / C448 / Z662 Standards.
- CSA B137.1 / ASTM F714 (¾" to 24") Certified to NSF61 / NSF14 standard for water pipe.
- Material is listed with the Plastic Pipe Institute as per PPI TR-3.

Physical Properties

Item	Test Method	Unit	Typical Value
Cell Classification	ASTM D3350	/	445574C
Melt Index Condition E, 190°C/2.16 kg	ASTM D1238	g/10min	0.04
Density	ASTM D1505	g/cm3	0.948
PENT	ASTM F1473	h	>2,000
Thermal Stability Temperature	ASTM D3350	C	260°
Brittleness Temperature, Type A, Type I Specimen	ASTM D746	C	<-70°
Hydrostatic Design Basis @ 23°C	ASTM D2837	psi	1600
Hydrostatic Design Basis @ 60°C	ASTM D2837	psi	1000
Hardness, Shore D	ASTM D2240	/	24
Heat Deflection Temperature @ 66psi	ASTM D746	C	68°
Flexural Modulus 2% Secant	ASTM D790	MPa	>793
Tensile Strength (at yield)	ASTM D638	Mpa	>24
Elongation (at break)	ASTM D638	%	>600

Note: Data shown above are representative values for reference purposes only, and not to be interpret as specifications.

Industry Standards**Contact Information**Alexander Tubular LP.
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Product Specifications Iron Pipe Size (IPS)



IPS			Pressure Rating (psi)										
			379	335	319	250	200	160	138	125	100	80	64
Size	OD (in)		Standard Dimension Ratio (SDR)										
			6.3	7	7.3	9	11	13.5	15.5	17	21	26	32.5
3/4"	1.050"	Wall Min (in)					0.095	0.078					
		ID ^C (in)					0.859	0.894					
		Weight (Lbs/Ft)					0.126	0.104					
1"	1.315"	Wall Min (in)				0.146	0.120	0.097					
		ID ^C (in)				1.023	1.076	1.120					
		Weight (Lbs/Ft)				0.235	0.197	0.164					
1 1/4"	1.660"	Wall Min (in)				0.184	0.151	0.123					
		ID ^C (in)				1.291	1.358	1.414					
		Weight (Lbs/Ft)				0.374	0.314	0.261					
1 1/2"	1.900"	Wall Min (in)				0.211	0.173	0.141	0.123	0.112			
		ID ^C (in)				1.478	1.555	1.619	1.655	1.676			
		Weight (Lbs/Ft)				0.490	0.411	0.342	0.301	0.276			
2"	2.375"	Wall Min (in)	0.377	0.339	0.325	0.264	0.216	0.176	0.153	0.140	0.113		
		ID ^C (in)	1.621	1.696	1.724	1.847	1.943	2.023	2.069	2.096	2.149		
		Weight (Lbs/Ft)	1.032	0.948	0.915	0.766	0.642	0.534	0.470	0.431	0.353		
2 1/2"	2.875"	Wall Min (in)	0.456	0.411	0.394	0.319	0.261	0.213	0.185	0.169	0.137	0.111	
		ID ^C (in)	1.962	2.054	2.087	2.236	2.352	2.449	2.504	2.537	2.601	2.654	
		Weight (Lbs/Ft)	1.512	1.389	1.341	1.123	0.941	0.782	0.689	0.632	0.518	0.423	
3"	3.500"	Wall Min (in)	0.556	0.500	0.479	0.389	0.318	0.259	0.226	0.206	0.167	0.135	0.108
		ID ^C (in)	2.389	2.500	2.541	2.722	2.864	2.981	3.048	3.088	3.167	3.231	3.285
		Weight (Lbs/Ft)	2.242	2.058	1.988	1.664	1.395	1.159	1.020	0.936	0.768	0.626	0.505
4"	4.500"	Wall Min (in)	0.714	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.214	0.173	0.138
		ID ^C (in)	3.071	3.214	3.267	3.500	3.682	3.833	3.919	3.971	4.071	4.154	4.223
		Weight (Lbs/Ft)	3.705	3.402	3.286	2.751	2.306	1.916	1.687	1.548	1.269	1.035	0.835
5"	5.563"	Wall Min (in)	0.883	0.795	0.762	0.618	0.506	0.412	0.359	0.327	0.265	0.214	0.171
		ID ^C (in)	3.797	3.974	4.039	4.327	4.552	4.739	4.845	4.909	5.033	5.135	5.221
		Weight (Lbs/Ft)	5.663	5.200	5.022	4.204	3.523	2.928	2.578	2.366	1.939	1.582	1.277
6"	6.625"	Wall Min (in)	1.052	0.946	0.908	0.736	0.602	0.491	0.427	0.390	0.315	0.255	0.204
		ID ^C (in)	4.522	4.732	4.810	5.153	5.420	5.644	5.770	5.846	5.994	6.115	6.217
		Weight (Lbs/Ft)	8.031	7.374	7.123	5.963	4.997	4.152	3.656	3.355	2.751	2.244	1.811

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Product Specifications Iron Pipe Size (IPS)



IPS			Pressure Rating (psi)										
			379	335	319	250	200	160	138	125	100	80	64
Size	OD (in)		Standard Dimension Ratio (SDR)										
			6.3	7	7.3	9	11	13.5	15.5	17	21	26	32.5
8"	8.625"	Wall Min (in)	1.369	1.232	1.182	0.958	0.784	0.639	0.556	0.507	0.411	0.332	0.265
		ID ^c (in)	5.887	6.161	6.262	6.708	7.057	7.347	7.512	7.610	7.804	7.962	8.094
		Weight (Lbs/Ft)	13.612	12.499	12.073	10.107	8.470	7.038	6.197	5.687	4.662	3.804	3.069
10"	10.750"	Wall Min (in)	1.706	1.536	1.473	1.194	0.977	0.796	0.694	0.632	0.512	0.413	0.331
		ID ^c (in)	7.337	7.679	7.805	8.361	8.795	9.157	9.363	9.485	9.726	9.923	10.088
		Weight (Lbs/Ft)	21.146	19.416	18.755	15.700	13.157	10.933	9.627	8.834	7.242	5.909	4.767
12"	12.750"	Wall Min (in)	2.240	1.821	1.747	1.417	1.159	0.944	0.823	0.750	0.607	0.490	0.392
		ID ^c (in)	8.702	9.107	9.257	9.917	10.432	10.861	11.105	11.250	11.536	11.769	11.965
		Weight (Lbs/Ft)	29.746	27.313	26.382	22.086	18.509	15.379	13.542	12.427	10.187	8.312	6.706
14"	14.000"	Wall Min (in)	2.222	2.000	1.918	1.556	1.273	1.037	0.903	0.824	0.667	0.538	0.431
		ID ^c (in)	9.556	10.000	10.164	10.889	11.455	11.926	12.194	12.353	12.667	12.923	13.138
		Weight (Lbs/Ft)	35.864	32.931	31.809	26.628	22.316	18.542	16.327	14.983	12.283	10.022	8.086
16"	16.000"	Wall Min (in)	2.540	2.286	2.192	1.778	1.455	1.185	1.032	0.941	0.762	0.615	0.492
		ID ^c (in)	10.921	11.429	11.616	12.444	13.091	13.630	13.935	14.118	14.476	14.769	15.015
		Weight (Lbs/Ft)	46.843	43.011	41.546	34.780	29.147	24.218	21.325	19.570	16.043	13.090	10.561
18"	18.000"	Wall Min (in)	2.857	2.571	2.466	2.000	1.636	1.333	1.161	1.059	0.857	0.692	0.554
		ID ^c (in)	12.286	12.857	13.068	14.000	14.727	15.333	15.677	15.882	16.286	16.615	16.892
		Weight (Lbs/Ft)	59.286	54.436	52.582	44.018	36.889	30.652	26.990	24.768	20.304	16.567	13.366
20"	20.000"	Wall Min (in)	3.175	2.857	2.740	2.222	1.818	1.481	1.290	1.176	0.952	0.769	0.615
		ID ^c (in)	13.651	14.286	14.521	15.556	16.364	17.037	17.419	17.647	18.095	18.462	18.769
		Weight (Lbs/Ft)	73.192	67.205	64.916	54.344	45.542	37.841	33.321	30.578	25.067	20.453	16.502
22"	22.000"	Wall Min (in)	3.492	3.143	3.014	2.444	2.000	1.630	1.419	1.294	1.048	0.846	0.677
		ID ^c (in)	15.016	15.714	15.973	17.111	18.000	18.741	19.161	19.412	19.905	20.308	20.646
		Weight (Lbs/Ft)	88.562	81.319	78.549	65.756	55.106	45.788	40.318	36.999	30.331	24.749	19.967
24"	24.000"	Wall Min (in)	3.810	3.429	3.288	2.667	2.182	1.778	1.548	1.412	1.143	0.923	0.738
		ID ^c (in)	16.381	17.143	17.425	18.667	19.636	20.444	20.903	21.176	21.714	22.154	22.523
		Weight (Lbs/Ft)	105.397	96.776	93.479	78.255	65.581	54.492	47.982	44.032	36.096	29.453	23.763



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Product Specifications Iron Pipe Size (IPS)



IPS			Pressure Rating (psi)										
			379	335	319	250	200	160	138	125	100	80	64
Size	OD (in)		Standard Dimension Ratio (SDR)										
			6.3	7	7.3	9	11	13.5	15.5	17	21	26	32.5
26"	26.000"	Wall Min (in)				2.889	2.364	1.926	1.677	1.529	1.238	1.000	0.800
		ID ^C (in)				20.222	21.273	22.148	22.645	22.941	23.524	24.000	24.400
		Weight (Lbs/Ft)				91.841	76.967	63.952	56.312	51.676	42.363	34.566	27.888
28"	28.000"	Wall Min (in)				3.111	2.545	2.074	1.806	1.647	1.333	1.077	0.862
		ID ^C (in)				21.778	22.909	23.852	24.387	24.706	25.333	25.846	26.277
		Weight (Lbs/Ft)				106.514	89.263	74.169	65.309	59.932	49.131	40.089	32.343
30"	30.000"	Wall Min (in)				3.333	2.727	2.222	1.935	1.765	1.429	1.154	0.923
		ID ^C (in)				23.333	24.545	25.556	26.129	26.471	27.143	27.692	28.154
		Weight (Lbs/Ft)				122.273	102.470	85.143	74.972	68.800	56.401	46.020	37.129
32"	32.000"	Wall Min (in)				3.556	2.909	2.370	2.065	1.882	1.524	1.231	0.985
		ID ^C (in)				24.889	26.182	27.259	27.871	28.235	28.952	29.538	30.031
		Weight (Lbs/Ft)				139.120	116.588	96.874	85.302	78.279	64.171	52.361	42.244
34"	34.000"	Wall Min (in)				3.778	3.091	2.519	2.194	2.000	1.619	1.308	1.046
		ID ^C (in)				26.444	27.818	28.963	29.613	30.000	30.762	31.385	31.908
		Weight (Lbs/Ft)				157.053	131.617	109.362	96.298	88.370	72.443	59.110	47.690
36"	36.000"	Wall Min (in)				4.000	3.273	2.667	2.323	2.118	1.714	1.385	1.108
		ID ^C (in)				28.000	29.455	30.667	31.355	31.765	32.571	33.231	33.785
		Weight (Lbs/Ft)				176.074	147.557	122.606	107.960	99.072	81.217	66.269	53.466
38"	38.000"	Wall Min (in)					3.455	2.815	2.452	2.235	1.810	1.462	1.169
		ID ^C (in)					31.091	32.370	33.097	33.529	34.381	35.077	35.662
		Weight (Lbs/Ft)					164.408	136.607	120.289	110.385	90.492	73.837	59.571
40"	40.000"	Wall Min (in)					3.636	2.963	2.581	2.353	1.905	1.538	1.231
		ID ^C (in)					32.727	34.074	34.839	35.294	36.190	36.923	37.538
		Weight (Lbs/Ft)					182.169	151.366	133.284	122.311	100.268	81.813	66.007
42"	42.000"	Wall Min (in)					3.818	3.111	2.710	2.471	2.000	1.615	1.292
		ID ^C (in)					34.364	35.778	36.581	37.059	38.000	38.769	39.415
		Weight (Lbs/Ft)					200.842	166.881	146.946	134.848	110.545	90.199	72.773
44"	44.000"	Wall Min (in)					4.000	3.259	2.839	2.588	2.095	1.692	1.354
		ID ^C (in)					36.000	37.481	38.323	38.824	39.810	40.615	41.292
		Weight (Lbs/Ft)					220.425	183.152	161.274	147.996	121.324	98.994	79.868
46"	46.000"	Wall Min (in)					4.182	3.407	2.968	2.706	2.190	1.769	1.415
		ID ^C (in)					37.636	39.185	40.065	40.588	41.619	42.462	43.169
		Weight (Lbs/Ft)					240.919	200.181	176.268	161.756	132.604	108.198	87.294
48"	48.000"	Wall Min (in)					4.364	3.556	3.097	2.824	2.286	1.846	1.477
		ID ^C (in)					39.273	40.889	41.806	42.353	43.429	44.308	45.046
		Weight (Lbs/Ft)					262.324	217.966	191.929	176.127	144.385	117.811	95.050

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Product Specifications Ductile Iron Outside Diameter (DIOD)



IPS			Pressure Rating (psi)					
			335	250	200	160	125	100
Size	OD (in)		Standard Dimension Ratio (SDR)					
			7	9	11	13.5	17	21
4"	4.800"	Wall Min (in)	0.686	0.533	0.436	0.356	0.282	0.229
		ID ^C (in)	3.429	3.733	3.927	4.089	4.235	4.343
		Weight (Lbs/Ft)	3.871	3.130	2.623	2.180	1.761	1.444
6"	6.900"	Wall Min (in)	0.986	0.767	0.627	0.511	0.406	0.329
		ID ^C (in)	4.929	5.367	5.645	5.878	6.088	6.243
		Weight (Lbs/Ft)	7.999	6.468	5.421	4.504	3.640	2.984
8"	9.050"	Wall Min (in)	1.293	1.006	0.823	0.670	0.532	0.431
		ID ^C (in)	6.464	7.039	7.405	7.709	7.985	8.188
		Weight (Lbs/Ft)	13.761	11.127	9.325	7.748	6.261	5.133
10"	11.100"	Wall Min (in)	1.586	1.233	1.009	0.822	0.653	0.529
		ID ^C (in)	7.929	8.633	9.082	9.456	9.794	10.043
		Weight (Lbs/Ft)	20.701	16.739	14.028	11.656	9.419	7.721
12"	13.200"	Wall Min (in)	1.886	1.467	1.200	0.978	0.776	0.629
		ID ^C (in)	9.429	10.267	10.800	11.244	11.647	11.943
		Weight (Lbs/Ft)	29.275	23.672	19.838	16.484	13.320	10.919
14"	15.300"	Wall Min (in)	2.186	1.700	1.391	1.133	0.900	0.729
		ID ^C (in)	10.929	11.900	12.518	13.033	13.500	13.843
		Weight (Lbs/Ft)	39.330	31.803	26.653	22.146	17.895	14.670
16"	17.400"	Wall Min (in)	2.486	1.933	1.582	1.289	1.024	0.829
		ID ^C (in)	1,429	13.533	14.236	14.822	15.353	15.743
		Weight (Lbs/Ft)	50.868	41.133	34.471	28.642	23.144	18.973
18"	19.500"	Wall Min (in)	2.786	2.167	1.773	1.444	1.147	0.929
		ID ^C (in)	13.929	15.167	15.955	16.611	17.206	17.643
		Weight (Lbs/Ft)	63.887	51.661	43.294	35.973	29.068	23,829
20"	21.600"	Wall Min (in)	3.086	2.400	1.964	1.600	1.271	1.029
		ID ^C (in)	15.429	16.800	17.673	18.400	19.059	19.543
		Weight (Lbs/Ft)	78.388	63.387	53.121	44.138	35.666	29.238
24"	25.800"	Wall Min (in)	3.686	2.867	2.345	1.911	1.518	1.229
		ID ^C (in)	18.429	20.067	21.109	21.978	22.765	23.343
		Weight (Lbs/Ft)	111.837	90.433	75.787	62.972	50.884	41.714

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