

ASTM A53 Schedule 40 vs. ASTM A500

Wheatland Tube has more than 100 years of experience making steel tube and pipe, and is a division of the largest independent tube manufacturer in North America – Zekelman Industries. At Wheatland, we use the latest technology to produce superior-quality galvanized pipe and tubing available in a broad range of sizes, gauges and lengths.

Mechanical Tube In-Line:

Our in-line galvanizing process offers superior flexibility and quality when compared to products made from pre-galvanized coil or post-hot-dipped galvanized tube. In-line galvanizing produces a bright, virtually lead-free coating that is exceptionally durable and can stand up to the most severe fabrication processes – all without flaking or chipping.

Schedule 40 Hot Dip:

Wheatland’s hot-dipped galvanizing process is straight forward. The pipe is submerged in a pickle tub to remove all the scale and rust, both inside and out. The pipe is rinsed and then dunked in a pre-flux to ensure good adhesion of the zinc. The bare pipe is then submerged into a kettle of molten zinc. It then passes through an outside diameter air wiper for a uniform finish. The inside diameter is then blown clean with a blast of hot steam. The pipe cools on a cooling rack on the way to the white rust inhibitor bath.

ASTM A53 SCHEDULE 40 CAPABILITIES

NPS	NOM. OD INCHES	NOMINAL WALL	WT./LBS. FT.
1	1.315	0.133	1.68
1¼	1.660	0.140	2.27
1½	1.900	0.145	2.72
2	2.375	0.154	3.66
2½	2.875	0.203	5.80
3	3.500	0.216	7.58
4	4.500	0.237	10.88
5	5.563	0.258	14.63
6	6.625	0.280	18.99
8*	8.625	0.322	28.58

*8 NPS Schedule 40 is FM Approved but not UL Listed.



ASTM A500 CAPABILITIES CHART

OD	GAUGE & NOMINAL WALL THICKNESS															
	20 0.035	19 0.042	18 0.049	17 0.058	16 0.065	15 0.072	14 0.083	13 0.095	12 0.109	11 0.120	10 0.134	9 0.148	8 0.165	7 0.180	6 0.203	5 0.220
0.706	0.2511	0.2981	0.3441	0.4018	0.4454	—	—	—	—	—	—	—	—	—	—	—
0.750	0.2675	0.3179	0.3672	0.4291	0.4760	—	—	—	—	—	—	—	—	—	—	—
0.815	0.2918	0.3471	0.4012	0.4694	0.5211	0.5719	0.6495	—	—	—	—	—	—	—	—	—
0.875	0.3143	0.3740	0.4327	0.5066	0.5628	0.6181	0.7027	—	—	—	—	—	—	—	—	—
0.922	0.3319	0.3951	0.4573	0.5357	0.5955	0.6542	0.7444	—	—	—	—	—	—	—	—	—
0.995	0.3592	0.4279	0.4955	0.5810	0.6462	0.7104	0.8092	0.9140	1.0324	—	—	—	—	—	—	—
1.000	0.3611	0.4301	0.4981	0.5841	0.6497	0.7143	0.8136	0.9191	1.0382	—	—	—	—	—	—	—
1.029	0.3719	0.4431	0.5133	0.6020	0.6698	0.7366	0.8394	0.9485	1.0720	1.1661	—	—	—	—	—	—
1.050	0.3798	0.4526	0.5243	0.6151	0.6844	0.7527	0.8580	0.9699	1.0965	1.1930	—	—	—	—	—	—
1.125	0.4078	0.4862	0.5636	0.6616	0.7365	0.8105	0.9245	1.0460	1.1839	1.2892	—	—	—	—	—	—
1.163	0.4220	0.5033	0.5835	0.6851	0.7629	0.8397	0.9583	1.0846	1.2281	1.3380	—	—	—	—	—	—
1.250	0.4546	0.5424	0.6291	0.7391	0.8234	0.9067	1.0354	1.1730	1.3295	1.4496	—	—	—	—	—	—
1.290	0.4696	0.5603	0.6500	0.7639	0.8512	0.9375	1.0709	1.2136	1.3761	1.5009	—	—	—	—	—	—
1.315	0.4789	0.5716	0.6631	0.7794	0.8686	0.9567	1.0931	1.2390	1.4052	1.5329	1.6917	—	—	—	—	—
1.375	0.5014	0.5985	0.6946	0.8166	0.9103	1.0029	1.1464	1.2999	1.4752	1.6099	1.7777	—	—	—	—	—
1.500	0.5481	0.6546	0.7600	0.8941	0.9971	1.0991	1.2573	1.4268	1.6208	1.7703	1.9567	—	—	—	—	—
1.510	0.5519	0.6591	0.7653	0.9003	1.0041	1.1068	1.2661	1.4370	1.6325	1.7831	1.9711	—	—	—	—	—
1.625	0.5949	0.7107	0.8255	0.9716	1.0840	1.1953	1.3682	1.5538	1.7665	1.9306	2.1358	—	—	—	—	—
1.638	0.5998	0.7166	0.8323	0.9796	1.0930	1.2053	1.3797	1.5670	1.7816	1.9473	2.1544	—	—	—	—	—
1.660	0.6080	0.7264	0.8439	0.9933	1.1083	1.2223	1.3992	1.5893	1.8072	1.9755	2.1859	—	—	—	—	—
1.690	0.6192	0.7399	0.8596	1.0119	1.1291	1.2453	1.4258	1.6198	1.8422	2.0140	2.2289	—	—	—	—	—
1.740	0.6379	0.7624	0.8858	1.0429	1.1639	1.2838	1.4702	1.6706	1.9005	2.0781	2.3005	—	—	—	—	—
1.875	0.6884	0.8230	0.9565	1.1266	1.2577	1.3877	1.5900	1.8077	2.0578	2.2513	2.4939	—	—	—	—	—
1.883	0.6914	0.8266	0.9607	1.1315	1.2632	1.3939	1.5971	1.8158	2.0671	2.2616	2.5054	—	—	—	—	—
1.900	0.6978	0.8342	0.9696	1.1421	1.2750	1.4070	1.6122	1.8331	2.0869	2.2834	2.5297	2.7719	—	—	—	—
2.000	0.7352	0.8791	1.0220	1.2041	1.3445	1.4839	1.7009	1.9346	2.2034	2.4117	2.6730	2.9301	—	—	—	—
2.197	—	—	1.1251	1.3262	1.4814	1.6356	1.8757	2.1347	2.4330	2.6644	2.9552	3.2418	—	—	—	—
2.250	—	—	1.1529	1.3591	1.5182	1.6764	1.9227	2.1885	2.4947	2.7324	3.0311	3.3256	3.6776	—	—	—
2.360	—	—	1.2105	1.4273	1.5947	1.7610	2.0203	2.3002	2.6229	2.8735	3.1887	3.4996	3.8717	—	—	—
2.375	—	—	1.2184	1.4366	1.6051	1.7726	2.0336	2.3155	2.6404	2.8927	3.2101	3.5234	3.8981	—	—	—
2.500	—	—	1.2839	1.5141	1.6920	1.8688	2.1445	2.4424	2.7860	3.0531	3.3892	3.7211	4.1186	—	—	—
2.857	—	—	—	—	—	2.1436	2.4613	2.8049	3.2020	3.5110	3.9006	4.2860	4.7483	5.1511	5.7594	—
2.875	—	—	—	—	—	2.1574	2.4773	2.8232	3.2230	3.5341	3.9264	4.3144	4.7800	5.1857	5.7984	6.2440
3.000	—	—	—	—	—	2.2536	2.5882	2.9502	3.3686	3.6945	4.1054	4.5122	5.0005	5.4262	6.0697	6.5380
3.476	—	—	—	—	—	2.6200	3.0105	3.4336	3.9233	4.3051	4.7873	5.2653	5.8401	6.3422	7.1026	7.6575
3.500	—	—	—	—	—	2.6385	3.0318	3.4579	3.9512	4.3359	4.8217	5.3033	5.8824	6.3883	7.1547	7.7139
3.971	—	—	—	—	—	3.0010	3.4497	3.9363	4.5000	4.9401	5.4963	6.0484	6.7132	7.2946	8.1768	8.8216
4.000	—	—	—	—	—	3.0233	3.4754	3.9657	4.5338	4.9773	5.5379	6.0943	6.7644	7.3504	8.2398	8.8898
4.466	—	—	—	—	—	3.3820	3.8889	4.4390	5.0768	5.5750	6.2054	6.8316	7.5863	8.2471	9.2510	9.9857
4.500	—	—	—	—	—	3.4081	3.9191	4.4735	5.1164	5.6187	6.2541	6.8854	7.6463	8.3125	9.3248	10.0657
5.000	—	—	—	—	—	3.7930	4.3627	4.9813	5.6990	6.2601	6.9704	7.6764	8.5282	9.2746	10.4098	11.2416

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