

MECHANICAL TUBE SPECIFICATIONS

ROUND (in inches) Nominal decimal for ordering gauge													
Outside Diameter	Fraction Equivalent	22 0.028	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
0.500	1/2"	0.1413	0.1740	0.2056	0.2362	0.2740	0.3023						
0.555			0.1946	0.2303	0.2650	0.3081	0.3405						
0.562			0.1972	0.2335	0.2687	0.3125	0.3453						
0.625	5/8"		0.2207	0.2618	0.3017	0.3516	0.3891	0.4256	0.4809				
0.706			0.2511	0.2981	0.3441	0.4018	0.4454	0.4880	0.5528				
0.745			0.2656	0.3156	0.3646	0.4260	0.4725	0.5180	0.5874				
0.750	3/4"		0.2675	0.3179	0.3672	0.4291	0.4760	0.5218	0.5918	0.6652	0.7469		
0.787			0.2814	0.3345	0.3866	0.4520	0.5017	0.5503	0.6246	0.7028	0.7900		
0.813	13/16"		0.2909	0.3459	0.3999	0.4678	0.5194	0.5699	0.6473	0.7287	0.8197		
0.840			0.3012	0.3583	0.4143	0.4849	0.5385	0.5911	0.6717	0.7566	0.8518		
0.875	7/8"		0.3143	0.3740	0.4327	0.5066	0.5628	0.6181	0.7027	0.7921	0.8926	0.9685	
0.937			0.3375	0.4018	0.4651	0.5450	0.6059	0.6658	0.7577	0.8551	0.9648	1.0480	
0.995			0.3592	0.4279	0.4955	0.5810	0.6462	0.7104	0.8092	0.9140	1.0324	1.1225	
1.000	1"		0.3611	0.4301	0.4981	0.5841	0.6497	0.7143	0.8136	0.9191	1.0382	1.1289	
1.033			0.3734	0.4449	0.5154	0.6045	0.6726	0.7397	0.8429	0.9526	1.0767	1.1712	
1.050			0.3798	0.4526	0.5243	0.6151	0.6844	0.7527	0.8580	0.9699	1.0965	1.1930	
1.063	1-1/16"		0.3844	0.4582	0.5309	0.6228	0.6931	0.7624	0.8691	0.9825	1.1110	1.2090	
1.125	1-1/8"		0.4078	0.4862	0.5636	0.6616	0.7365	0.8105	0.9245	1.0460	1.1839	1.2892	
1.250	1-1/4"		0.4546	0.5424	0.6291	0.7391	0.8234	0.9067	1.0354	1.1730	1.3295	1.4496	
1.313	1-5/16"		0.4780	0.5704	0.6618	0.7778	0.8668	0.9548	1.0909	1.2364	1.4023	1.5297	
1.315			0.4789	0.5716	0.6631	0.7794	0.8686	0.9567	1.0931	1.2390	1.4052	1.5329	
1.375	1-3/8"		0.5014	0.5985	0.6946	0.8166	0.9103	1.0029	1.1464	1.2999	1.4752	1.6099	
1.438	1-7/16"		0.5247	0.6266	0.7273	0.8553	0.9537	1.0510	1.2018	1.3634	1.5480	1.6901	
1.500	1-1/2"		0.5481	0.6546	0.7600	0.8941	0.9971	1.0991	1.2573	1.4268	1.6208	1.7703	
1.563	1-9/16"		0.5715	0.6827	0.7928	0.9328	1.0405	1.1472	1.3127	1.4903	1.6936	1.8504	
1.600			0.5855	0.6995	0.8124	0.9561	1.0666	1.1761	1.3460	1.5284	1.7373	1.8985	
1.625	1-5/8"		0.5949	0.7107	0.8255	0.9716	1.0840	1.1953	1.3682	1.5538	1.7665	1.9306	
1.660			0.6080	0.7264	0.8439	0.9933	1.1083	1.2223	1.3992	1.5893	1.8072	1.9755	
1.690			0.6192	0.7399	0.8596	1.0119	1.1291	1.2453	1.4258	1.6198	1.8422	2.0140	
1.750	1-3/4"				0.8910	1.0491	1.1708	1.2915	1.4791	1.6807	1.9121	2.0910	
1.875	1-7/8"				0.9565	1.1266	1.2577	1.3877	1.5900	1.8077	2.0578	2.2513	
1.900					0.9696	1.1421	1.2750	1.4070	1.6122	1.8331	2.0869	2.2834	
2.000	2"				1.0220	1.2041	1.3445	1.4839	1.7009	1.9346	2.2034	2.4117	2.6730
2.125	2-1/8"				1.0874	1.2816	1.4314	1.5802	1.8118	2.0616	2.3491	2.5720	2.8520
2.195					1.1241	1.3250	1.4800	1.6340	1.8739	2.1327	2.4306	2.6618	2.9523
2.250	2-1/4"				1.1529	1.3591	1.5182	1.6764	1.9227	2.1885	2.4947	2.7324	3.0311
2.255					1.1555	1.3622	1.5217	1.6802	1.9272	2.1936	2.5005	2.7388	3.0382
2.375					1.2184	1.4366	1.6051	1.7726	2.0336	2.3155	2.6404	2.8927	3.2101
2.500	2-1/2"				1.2839	1.5141	1.6920	1.8688	2.1445	2.4424	2.7860	3.0531	3.3892
3.000	3"						2.0394	2.2536	2.5882	2.9502	3.3686	3.6945	4.1054

Our capabilities are continuously evolving; additional sizes will soon be available.
For information on those and other sizes not listed please contact your sales representative.

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SHAPES

		Fraction Equivalent	20	19	18	17	16	15	14	13	12	11	10
	Size		0.035	0.042	0.049	0.058	0.065	0.072	0.083	0.095	0.109	0.120	0.134
SQUARE	0.500	1/2"	0.2215	0.2618	0.3008	0.3489	0.3848	0.4194	0.4711				
	0.750	3/4"	0.3406	0.4047	0.4675	0.5463	0.6060	0.6644	0.7535	0.8469	0.9509	1.0289	
	0.875	7/8"	0.4001	0.4762	0.5509	0.6449	0.7166	0.7869	0.8947	1.0085	1.1364	1.2331	
	0.890		0.4073	0.4847	0.5609	0.6568	0.7298	0.8016	0.9116	1.0279	1.1586	1.2576	
	1.000	1"	0.4597	0.5476	0.6342	0.7436	0.8271	0.9094	1.0359	1.1701	1.3218	1.4372	
	1.250	1-1/4"	0.5788	0.6905	0.8009	0.9409	1.0483	1.1543	1.3183	1.4934	1.6927	1.8455	
	1.500	1-1/2"	0.6979	0.8334	0.9677	1.1383	1.2695	1.3993	1.6007	1.8166	2.0635	2.2538	
	1.585				1.0243	1.2054	1.3447	1.4826	1.6967	1.9265	2.1896	2.3926	
	1.750	1-3/4"			1.1344	1.3356	1.4906	1.6443	1.8831	2.1398	2.4344	2.6621	2.9472
	2.000	2"			1.3011	1.5330	1.7118	1.8893	2.1655	2.4631	2.8053	3.0704	3.4031
2.500	2-1/2"					2.1541	2.3792	2.7303	3.1095	3.5470	3.8870	4.3150	
RECTANGLE*	Nominal Size												
	0.500 x 1.500		0.4597	0.5476	0.6342	0.7436	0.8271	0.9094	1.0359				
	0.750 x 1.500		0.5192	0.6191	0.7176	0.8423	0.9377	1.0319	1.771	1.3317	1.5072	1.6414	
	1.000 x 1.500			0.6905	0.8009	0.9409	1.0483	1.1543	1.3183	1.4934	1.6927	1.8455	
	1.000 x 2.000			0.8334	0.9677	1.1383	1.2695	1.3993	1.6007	1.8166	2.0635	2.2538	
	1.250 x 0.500		0.4001	0.4762	0.5509	0.6449	0.7166	0.7869	0.8947	1.0085	1.1364	1.2331	
	1.250 x 0.750				0.6342	0.7436	0.8271	0.9094	1.0359	1.1701	1.3218	1.4372	
	1.250 x 2.000		0.7574	0.9049	1.0510	1.2370	1.3801	1.5218	1.7419	1.9782	2.2490	2.4580	2.7192
	1.500 x 0.750		0.5192	0.6191	0.7176	0.8423	0.9377	1.0319	1.1771	1.3317	1.5072	1.6414	
	1.500 x 2.000				1.1344	1.3356	1.4906	1.6443	1.8831	2.1398	2.4344	2.6621	2.9472
	1.500 x 2.500				1.3011	1.5330	1.7118	1.8893	2.1655	2.4631	2.8053	3.0704	3.4031
	1.500 x 3.000								2.4479	2.7863	3.1762	3.4787	3.8590
	1.920 x 0.890				0.9043	1.0633	1.1854	1.3062	1.4934				
	2.000 x 1.000			0.8334	0.9677	1.1383	1.2695	1.3993	1.6007	1.8166	2.0635	2.2538	
	2.000 x 1.250		0.7574	0.9049	1.0510	1.2370	1.3801	1.5218	1.7419	1.9782	2.2490	2.4580	2.7192
	2.000 x 3.000						2.1541	2.3792	2.7303	3.1095	3.5470	3.8870	4.3150
	2.250 x 0.750		0.6979	0.8334	0.9677	1.1383	1.2695	1.3993	1.6007	1.8166	2.0635	2.2538	
2.500 x 1.500				1.3011	1.5330	1.7118	1.8893	2.1655	2.4631	2.8053	3.0704	3.4031	
3.000 x 1.000						1.7118	1.8893	2.1655	2.4631	2.8053	3.0704	3.4031	
OVAL*	Nominal Size	Oval Type											
	0.630 x 1.358	FSO	0.3585	0.4271	0.4946	0.5799	0.6450	0.7091	0.8077				
	0.735 x 0.985	FSO	0.3375	0.4018	0.4651	0.5450	0.6059	0.6658	0.7577				
	1.500 x 0.750	EO	0.4075	0.4859	0.5632	0.661	0.7359	0.8098	0.9238	1.0452	1.1829		
	1.750 x 1.125	FSO			0.7600	0.8941	0.9971	1.0991	1.2573	1.4268	1.6208	1.7703	
	1.968 x 1.181	FSO	0.5755	0.6875	0.7984	0.9395	1.0480	1.1555	1.3223	1.5013	1.7062	1.8643	
D*	Nominal Size												
	1.910 x 1.227			0.8910	1.0491	1.1708	1.2915	1.4791					
HEX	Nominal Size												
	0.687		0.2907	0.3457	0.3997	0.4675	0.5191	0.5696	0.6468	0.7281	0.8191		

*For all rectangle, oval, and 'D' shaped sizes, the weld is located on the first side listed.

Other Specification Parameters

- ID Flash:**
Flash In: Not to exceed wall thickness or 3/32", whichever is less.
Flash Rolled: Controlled to .005" or .010". Minimum OD requirement is .875."
Flash Cut: Minimum OD requirement is 1.250" to flash cut.
- Cut Length:**
Tectron Tube has extensive in line and secondary cutting, de-burring, and end chamfering capabilities. Please inquire regarding your specific end finish requirements.
- Eddy Current Testing:**
All sizes produced are Eddy current tested.

All steel tube products are manufactured per ASTM-A513, Types 1 and 2, with the ability to meet other ASTM specifications.

TOLERANCES ACHIEVED				
STANDARD O.D. TOLERANCES			LENGTH TOLERANCES	
Rounds	Hot Rolled	Cold Rolled	Length	Tolerance
.500-.625	±.0035	±.003	48"-120"	±1/16"
>.625-1.125	±.0035	±.0035	>120"-180"	±1/8"
>1.125-2.000	±.005	±.005	>180"	±3/16"
>2.000-2.500	±.006	±.006		
>2.500-3.000	±.008	±.008		
			Closer O.D. and length tolerances available upon request	
Shapes				
.500	±.004	±.004		
.750-1.125	±.005	±.005		
>1.125-1.500	±.006	±.006		
>1.500-2.000	±.008	±.008		
>2.000-2.500	±.010	±.010		

Tectron Tube stocks a wide variety of Hot rolled, Cold rolled, and Pre-galvanized steel grades and gauges formulated to meet customer specific chemistry and/or mechanical property requirements.

Our capabilities are continuously evolving; additional sizes will soon be available. For information on those and other sizes not listed, please contact your sales representative.