

**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 1

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
0.500	0.028	22	0.14127	45,000	48,000	0.00464	0.00116	0.16719	0.04151
0.500	0.035	20	0.17398	45,000	48,000	0.00556	0.00139	0.16488	0.05112
0.500	0.042	19	0.20563	45,000	48,000	0.00639	0.00159	0.16262	0.06043
0.500	0.049	18	0.23623	45,000	48,000	0.00714	0.00178	0.16041	0.06942
0.500	0.058	17	0.27404	45,000	48,000	0.00800	0.00200	0.15763	0.08053
0.500	0.065	16	0.30226	45,000	48,000	0.00859	0.00214	0.15552	0.08882
0.625	0.028	22	0.17869	45,000	48,000	0.00750	0.00234	0.21133	0.05251
0.625	0.035	20	0.22074	45,000	48,000	0.00906	0.00283	0.20899	0.06487
0.625	0.042	19	0.26175	45,000	48,000	0.01051	0.00328	0.20668	0.07692
0.625	0.049	18	0.30171	45,000	48,000	0.01185	0.00370	0.20440	0.08866
0.625	0.058	17	0.35155	45,000	48,000	0.01342	0.00419	0.20153	0.10331
0.625	0.065	16	0.38911	45,000	48,000	0.01454	0.00454	0.19934	0.11435
0.706	0.028	22	0.20293	45,000	48,000	0.00972	0.00343	0.23991	0.05964
0.706	0.035	20	0.25105	45,000	48,000	0.01179	0.00416	0.23755	0.07378
0.706	0.042	19	0.29812	45,000	48,000	0.01373	0.00484	0.23522	0.08761
0.706	0.049	18	0.34414	45,000	48,000	0.01554	0.00548	0.23293	0.10113
0.706	0.058	17	0.40177	45,000	48,000	0.01769	0.00624	0.23001	0.11807
0.706	0.065	16	0.44539	45,000	48,000	0.01924	0.00679	0.22779	0.13089
0.706	0.072	15	0.48797	50,000	55,000	0.02068	0.00730	0.22562	0.14340
0.750	0.028	22	0.21610	45,000	48,000	0.01105	0.00414	0.25545	0.06351
0.750	0.035	20	0.26751	45,000	48,000	0.01342	0.00503	0.25309	0.07861
0.750	0.042	19	0.31787	45,000	48,000	0.01566	0.00587	0.25075	0.09341
0.750	0.049	18	0.36719	45,000	48,000	0.01776	0.00666	0.24844	0.10791
0.750	0.058	17	0.42905	45,000	48,000	0.02026	0.00760	0.24551	0.12609
0.750	0.065	16	0.47597	45,000	48,000	0.02207	0.00827	0.24327	0.13987
0.750	0.072	15	0.52184	50,000	55,000	0.02376	0.00891	0.24105	0.15336
0.815	0.028	22	0.23556	45,000	48,000	0.01316	0.00536	0.27842	0.06922
0.815	0.035	20	0.29183	45,000	48,000	0.01603	0.00653	0.27604	0.08576
0.815	0.042	19	0.34706	45,000	48,000	0.01875	0.00764	0.27370	0.10199
0.815	0.049	18	0.40123	45,000	48,000	0.02131	0.00868	0.27137	0.11791
0.815	0.058	17	0.46935	45,000	48,000	0.02438	0.00993	0.26842	0.13793
0.815	0.065	16	0.52113	45,000	48,000	0.02662	0.01084	0.26615	0.15315
0.815	0.072	15	0.57187	50,000	55,000	0.02872	0.01170	0.26392	0.16806
0.815	0.083	14	0.64948	50,000	55,000	0.03177	0.01294	0.26045	0.19087
0.875	0.028	22	0.25352	45,000	48,000	0.01528	0.00668	0.29962	0.07450
0.875	0.035	20	0.31428	45,000	48,000	0.01865	0.00816	0.29724	0.09236
0.875	0.042	19	0.37400	45,000	48,000	0.02184	0.00955	0.29488	0.10991
0.875	0.049	18	0.43266	45,000	48,000	0.02487	0.01088	0.29254	0.12715
0.875	0.058	17	0.50655	45,000	48,000	0.02853	0.01248	0.28958	0.14886
0.875	0.065	16	0.56282	45,000	48,000	0.03120	0.01365	0.28729	0.16540

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 2

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
0.875	0.072	15	0.61805	50,000	55,000	0.03373	0.01475	0.28504	0.18163
0.922	0.028	22	0.26759	45,000	48,000	0.01705	0.00786	0.31623	0.07864
0.922	0.035	20	0.33187	45,000	48,000	0.02083	0.00960	0.31384	0.09753
0.922	0.042	19	0.39510	45,000	48,000	0.02443	0.01126	0.31148	0.11611
0.922	0.049	18	0.45728	45,000	48,000	0.02785	0.01284	0.30913	0.13438
0.922	0.058	17	0.53569	45,000	48,000	0.03201	0.01475	0.30615	0.15743
0.922	0.065	16	0.59548	45,000	48,000	0.03505	0.01615	0.30386	0.17500
0.922	0.072	15	0.65422	50,000	55,000	0.03793	0.01748	0.30159	0.19226
0.922	0.083	14	0.74442	50,000	55,000	0.04216	0.01943	0.29807	0.21877
0.980	0.028	22	0.28495	45,000	48,000	0.01937	0.00949	0.33672	0.08374
0.980	0.035	20	0.35357	45,000	48,000	0.02370	0.01161	0.33433	0.10390
0.980	0.042	19	0.42114	45,000	48,000	0.02783	0.01363	0.33196	0.12376
0.980	0.049	18	0.48766	45,000	48,000	0.03177	0.01557	0.32961	0.14331
0.980	0.058	17	0.57165	45,000	48,000	0.03657	0.01792	0.32662	0.16800
0.980	0.065	16	0.63578	45,000	48,000	0.04010	0.01965	0.32431	0.18684
0.980	0.072	15	0.69886	50,000	55,000	0.04346	0.02130	0.32203	0.20538
0.980	0.083	14	0.79588	50,000	55,000	0.04842	0.02372	0.31849	0.23389
0.995	0.028	22	0.28944	45,000	48,000	0.02000	0.00995	0.34202	0.08506
0.995	0.035	20	0.35918	45,000	48,000	0.02447	0.01217	0.33963	0.10555
0.995	0.042	19	0.42787	45,000	48,000	0.02875	0.01430	0.33726	0.12574
0.995	0.049	18	0.49552	45,000	48,000	0.03283	0.01633	0.33491	0.14562
0.995	0.058	17	0.58095	45,000	48,000	0.03780	0.01880	0.33191	0.17073
0.995	0.065	16	0.64621	45,000	48,000	0.04147	0.02063	0.32960	0.18990
0.995	0.072	15	0.71041	50,000	55,000	0.04496	0.02236	0.32732	0.20877
0.995	0.083	14	0.80919	50,000	55,000	0.05010	0.02492	0.32377	0.23780
0.995	0.095	13	0.91399	50,000	55,000	0.05527	0.02749	0.31996	0.26860
1.000	0.028	22	0.29093	45,000	48,000	0.02021	0.01010	0.34379	0.08550
1.000	0.035	20	0.36105	45,000	48,000	0.02473	0.01236	0.34140	0.10610
1.000	0.042	19	0.43012	45,000	48,000	0.02905	0.01452	0.33902	0.12640
1.000	0.049	18	0.49814	45,000	48,000	0.03318	0.01659	0.33667	0.14639
1.000	0.058	17	0.58405	45,000	48,000	0.03822	0.01911	0.33367	0.17164
1.000	0.065	16	0.64968	45,000	48,000	0.04193	0.02096	0.33137	0.19093
1.000	0.072	15	0.71426	50,000	60,000	0.04546	0.02273	0.32908	0.20990
1.000	0.083	14	0.81362	50,000	55,000	0.05067	0.02533	0.32553	0.23911
1.000	0.095	13	0.91907	50,000	55,000	0.05591	0.02795	0.32172	0.27009
1.029	0.028	22	0.29961	45,000	48,000	0.02145	0.01103	0.35404	0.08805
1.029	0.035	20	0.37190	45,000	48,000	0.02626	0.01351	0.35165	0.10929
1.029	0.042	19	0.44314	45,000	48,000	0.03087	0.01588	0.34927	0.13023
1.029	0.049	18	0.51333	45,000	48,000	0.03528	0.01815	0.34691	0.15085
1.029	0.058	17	0.60203	45,000	48,000	0.04067	0.02092	0.34391	0.17692

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 3

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
1.029	0.065	16	0.66983	45,000	48,000	0.04464	0.02297	0.34159	0.19685
1.029	0.072	15	0.73658	50,000	55,000	0.04843	0.02492	0.33930	0.21646
1.029	0.083	14	0.83935	50,000	55,000	0.05404	0.02780	0.33574	0.24667
1.029	0.095	13	0.94852	50,000	55,000	0.05969	0.03071	0.33192	0.27875
1.050	0.028	22	0.30590	45,000	48,000	0.02237	0.01174	0.36146	0.08990
1.050	0.035	20	0.37976	45,000	48,000	0.02740	0.01438	0.35907	0.11160
1.050	0.042	19	0.45257	45,000	48,000	0.03223	0.01692	0.35669	0.13300
1.050	0.049	18	0.52433	45,000	48,000	0.03685	0.01934	0.35433	0.15409
1.050	0.058	17	0.61506	45,000	48,000	0.04249	0.02231	0.35132	0.18075
1.050	0.065	16	0.68442	45,000	48,000	0.04666	0.02450	0.34900	0.20114
1.050	0.072	15	0.75274	50,000	55,000	0.05065	0.02659	0.34671	0.22121
1.050	0.083	14	0.85799	50,000	55,000	0.05655	0.02969	0.34314	0.25214
1.050	0.095	13	0.96985	50,000	55,000	0.06250	0.03281	0.33931	0.28502
1.125	0.028	22	0.32835	45,000	48,000	0.02582	0.01452	0.38797	0.09649
1.125	0.035	20	0.40782	45,000	48,000	0.03167	0.01781	0.38557	0.11985
1.125	0.042	19	0.48624	45,000	48,000	0.03730	0.02098	0.38318	0.14289
1.125	0.049	18	0.56362	45,000	48,000	0.04270	0.02402	0.38081	0.16563
1.125	0.058	17	0.66156	45,000	48,000	0.04933	0.02775	0.37779	0.19442
1.125	0.065	16	0.73654	45,000	48,000	0.05425	0.03051	0.37547	0.21645
1.125	0.072	15	0.81047	50,000	55,000	0.05896	0.03316	0.37316	0.23818
1.125	0.083	14	0.92453	50,000	55,000	0.06597	0.03711	0.36957	0.27170
1.163	0.035	20	0.42204	45,000	48,000	0.03395	0.01974	0.39900	0.12403
1.163	0.042	19	0.50330	45,000	48,000	0.04001	0.02326	0.39661	0.14791
1.163	0.049	18	0.58352	45,000	48,000	0.04583	0.02665	0.39423	0.17148
1.163	0.058	17	0.68512	45,000	48,000	0.05299	0.03081	0.39121	0.20134
1.163	0.065	16	0.76294	45,000	48,000	0.05831	0.03390	0.38888	0.22421
1.163	0.072	15	0.83972	50,000	55,000	0.06341	0.03687	0.38656	0.24677
1.163	0.083	14	0.95825	50,000	55,000	0.07102	0.04130	0.38296	0.28161
1.163	0.095	13	1.08461	50,000	55,000	0.07877	0.04580	0.37908	0.31874
1.250	0.035	20	0.45459	45,000	48,000	0.03947	0.02467	0.42974	0.13359
1.250	0.042	19	0.54236	45,000	48,000	0.04657	0.02910	0.42735	0.15939
1.250	0.049	18	0.62909	45,000	48,000	0.05342	0.03338	0.42497	0.18488
1.250	0.058	17	0.73906	45,000	48,000	0.06186	0.03866	0.42193	0.21719
1.250	0.065	16	0.82339	45,000	48,000	0.06816	0.04260	0.41959	0.24198
1.250	0.072	15	0.90668	50,000	55,000	0.07422	0.04639	0.41726	0.26645
1.250	0.083	14	1.03544	50,000	55,000	0.08330	0.05206	0.41363	0.30429
1.250	0.095	13	1.17296	50,000	55,000	0.09259	0.05787	0.40973	0.34471
1.250	0.109	12	1.32950	50,000	55,000	0.10266	0.06416	0.40524	0.39071
1.250	0.120	11	1.44956	50,000	55,000	0.11001	0.06876	0.40176	0.42600
1.250	0.134	10	1.59863	50,000	55,000	0.11871	0.07419	0.39740	0.46980

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 4

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
1.290	0.042	19	0.56032	45,000	48,000	0.04976	0.03209	0.44148	0.16467
1.290	0.049	18	0.65004	45,000	48,000	0.05710	0.03683	0.43910	0.19103
1.290	0.058	17	0.76386	45,000	48,000	0.06617	0.04268	0.43606	0.22448
1.290	0.065	16	0.85119	45,000	48,000	0.07295	0.04705	0.43371	0.25014
1.290	0.072	15	0.93747	50,000	55,000	0.07948	0.05126	0.43138	0.27550
1.290	0.083	14	1.07094	50,000	55,000	0.08927	0.05758	0.42774	0.31472
1.290	0.095	13	1.21358	50,000	55,000	0.09932	0.06406	0.42382	0.35664
1.290	0.109	12	1.37611	50,000	55,000	0.11024	0.07110	0.41932	0.40441
1.290	0.120	11	1.50088	50,000	55,000	0.11824	0.07626	0.41582	0.44108
1.290	0.134	10	1.65592	50,000	55,000	0.12772	0.08238	0.41144	0.48664
1.315	0.035	20	0.47891	45,000	48,000	0.04387	0.02884	0.45271	0.14074
1.315	0.042	19	0.57155	45,000	48,000	0.05180	0.03406	0.45031	0.16796
1.315	0.049	18	0.66314	45,000	48,000	0.05947	0.03910	0.44793	0.19488
1.315	0.058	17	0.77936	45,000	48,000	0.06894	0.04533	0.44488	0.22904
1.315	0.065	16	0.86856	45,000	48,000	0.07602	0.04998	0.44253	0.25525
1.315	0.072	15	0.95671	50,000	55,000	0.08286	0.05448	0.44020	0.28116
1.315	0.083	14	1.09312	50,000	55,000	0.09312	0.06122	0.43656	0.32124
1.315	0.095	13	1.23897	50,000	55,000	0.10365	0.06815	0.43264	0.36411
1.315	0.109	12	1.40524	50,000	55,000	0.11512	0.07569	0.42812	0.41297
1.315	0.120	11	1.53295	50,000	55,000	0.12354	0.08122	0.42462	0.45050
1.315	0.134	10	1.69174	50,000	55,000	0.13352	0.08779	0.42022	0.49717
1.375	0.035	20	0.50136	40,000	45,000	0.04813	0.03309	0.47392	0.14734
1.375	0.042	19	0.59849	40,000	45,000	0.05688	0.03910	0.47152	0.17588
1.375	0.049	18	0.69457	40,000	45,000	0.06534	0.04492	0.46913	0.20412
1.375	0.058	17	0.81656	40,000	45,000	0.07582	0.05213	0.46608	0.23997
1.375	0.065	16	0.91025	40,000	45,000	0.08367	0.05752	0.46372	0.26750
1.375	0.072	15	1.00289	50,000	55,000	0.09125	0.06274	0.46138	0.29473
1.375	0.083	14	1.14635	50,000	55,000	0.10267	0.07058	0.45773	0.33689
1.500	0.035	20	0.54813	40,000	45,000	0.05765	0.04324	0.51810	0.16108
1.500	0.042	19	0.65461	40,000	45,000	0.06821	0.05116	0.51569	0.19237
1.500	0.049	18	0.76004	40,000	45,000	0.07846	0.05885	0.51329	0.22336
1.500	0.058	17	0.89406	40,000	45,000	0.09120	0.06840	0.51023	0.26275
1.500	0.065	16	0.99711	40,000	45,000	0.10077	0.07558	0.50786	0.29303
1.500	0.072	15	1.09910	50,000	55,000	0.11005	0.08254	0.50551	0.32300
1.500	0.083	14	1.25726	50,000	55,000	0.12407	0.09305	0.50184	0.36948
1.500	0.095	13	1.42685	50,000	55,000	0.13859	0.10394	0.49787	0.41932
1.500	0.109	12	1.62081	50,000	55,000	0.15454	0.11591	0.49330	0.47632
1.500	0.120	11	1.77026	50,000	55,000	0.16637	0.12478	0.48974	0.52024
1.500	0.134	10	1.95674	50,000	55,000	0.18055	0.13541	0.48527	0.57505
1.510	0.035	20	0.55187	40,000	45,000	0.05845	0.04413	0.52163	0.16218
1.510	0.042	19	0.65910	40,000	45,000	0.06916	0.05222	0.51922	0.19369

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Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
1.510	0.049	18	0.76528	40,000	45,000	0.07957	0.06007	0.51683	0.22490
1.510	0.058	17	0.90026	40,000	45,000	0.09249	0.06983	0.51376	0.26457
1.510	0.065	16	1.00406	40,000	45,000	0.10221	0.07717	0.51140	0.29507
1.510	0.072	15	1.10680	50,000	55,000	0.11163	0.08428	0.50904	0.32526
1.510	0.083	14	1.26613	50,000	55,000	0.12587	0.09503	0.50537	0.37209
1.510	0.095	13	1.43700	50,000	55,000	0.14062	0.10617	0.50140	0.42230
1.510	0.109	12	1.63246	50,000	55,000	0.15684	0.11841	0.49682	0.47974
1.510	0.120	11	1.78309	50,000	55,000	0.16887	0.12750	0.49326	0.52401
1.510	0.134	10	1.97107	50,000	55,000	0.18330	0.13839	0.48879	0.57925
1.625	0.035	20	0.59489	40,000	45,000	0.06804	0.05528	0.56235	0.17483
1.625	0.042	19	0.71073	40,000	45,000	0.08060	0.06548	0.55994	0.20887
1.625	0.049	18	0.82552	40,000	45,000	0.09281	0.07541	0.55754	0.24260
1.625	0.058	17	0.97157	40,000	45,000	0.10801	0.08775	0.55439	0.28552
1.625	0.065	16	1.08397	40,000	45,000	0.11947	0.09707	0.55202	0.31855
1.625	0.072	15	1.19531	50,000	55,000	0.13062	0.10613	0.54965	0.35128
1.625	0.083	14	1.36817	50,000	55,000	0.14751	0.11985	0.54596	0.40208
1.625	0.095	13	1.55379	50,000	55,000	0.16508	0.13413	0.54197	0.45663
1.625	0.109	12	1.76646	50,000	55,000	0.18450	0.14990	0.53737	0.51912
1.625	0.120	11	1.93061	50,000	55,000	0.19896	0.16166	0.53378	0.56737
1.625	0.134	10	2.13580	50,000	55,000	0.21640	0.17582	0.52927	0.62767
1.638	0.042	19	0.71657	40,000	45,000	0.08192	0.06709	0.56446	0.21058
1.638	0.049	18	0.83233	40,000	45,000	0.09435	0.07727	0.56206	0.24460
1.638	0.058	17	0.97963	40,000	45,000	0.10984	0.08995	0.55899	0.28789
1.638	0.065	16	1.09300	40,000	45,000	0.12151	0.09951	0.55661	0.32121
1.638	0.072	15	1.20532	50,000	55,000	0.13286	0.10881	0.55424	0.35422
1.638	0.083	14	1.37971	50,000	55,000	0.15006	0.12290	0.55055	0.40547
1.638	0.095	13	1.56699	50,000	55,000	0.16797	0.13757	0.54656	0.46051
1.638	0.109	12	1.78161	50,000	55,000	0.18777	0.15378	0.54195	0.52358
1.638	0.120	11	1.94729	50,000	55,000	0.20252	0.16586	0.53836	0.57227
1.638	0.134	10	2.15442	50,000	55,000	0.22032	0.18044	0.53385	0.63314
1.660	0.035	20	0.60799	40,000	45,000	0.07109	0.05900	0.57465	0.17867
1.660	0.042	19	0.72645	40,000	45,000	0.08422	0.06991	0.57224	0.21349
1.660	0.049	18	0.84385	40,000	45,000	0.09702	0.08052	0.56983	0.24799
1.660	0.058	17	0.99327	40,000	45,000	0.11297	0.09376	0.56676	0.29190
1.660	0.065	16	1.10829	40,000	45,000	0.12499	0.10374	0.56438	0.32570
1.660	0.072	15	1.22225	50,000	55,000	0.13669	0.11345	0.56202	0.35919
1.660	0.083	14	1.39922	50,000	55,000	0.15443	0.12818	0.55832	0.41120
1.660	0.095	13	1.58934	50,000	55,000	0.17292	0.14352	0.55433	0.46707
1.660	0.109	12	1.80724	50,000	55,000	0.19336	0.16049	0.54971	0.53111
1.660	0.120	11	1.97551	50,000	55,000	0.20861	0.17315	0.54612	0.58056
1.660	0.134	10	2.18593	50,000	55,000	0.22703	0.18843	0.54159	0.64240

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 6

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
1.690	0.065	16	1.12913	40,000	45,000	0.12982	0.10970	0.57498	0.33183
1.690	0.072	15	1.24534	50,000	55,000	0.14201	0.12000	0.57261	0.36598
1.690	0.083	14	1.42584	50,000	55,000	0.16050	0.13562	0.56891	0.41902
1.690	0.095	13	1.61980	50,000	55,000	0.17978	0.15191	0.56491	0.47603
1.690	0.109	12	1.84220	50,000	55,000	0.20113	0.16995	0.56029	0.54138
1.690	0.120	11	2.01400	50,000	55,000	0.21707	0.18343	0.55669	0.59187
1.690	0.134	10	2.22891	50,000	55,000	0.23634	0.19971	0.55216	0.65503
1.740	0.035	20	0.63792	40,000	45,000	0.07833	0.06815	0.60293	0.18747
1.740	0.042	19	0.76236	40,000	45,000	0.09286	0.08079	0.60051	0.22404
1.740	0.049	18	0.88576	40,000	45,000	0.10703	0.09312	0.59811	0.26030
1.740	0.058	17	1.04287	40,000	45,000	0.12472	0.10851	0.59503	0.30648
1.740	0.065	16	1.16387	40,000	45,000	0.13808	0.12013	0.59264	0.34204
1.740	0.072	15	1.28383	50,000	55,000	0.15110	0.13145	0.59027	0.37729
1.740	0.083	14	1.47021	50,000	55,000	0.17087	0.14866	0.58657	0.43206
1.740	0.095	13	1.67058	50,000	55,000	0.19151	0.16662	0.58256	0.49095
1.740	0.109	12	1.90046	50,000	55,000	0.21442	0.18654	0.57793	0.55850
1.740	0.120	11	2.07814	50,000	55,000	0.23154	0.20144	0.57432	0.61072
1.740	0.134	10	2.30053	50,000	55,000	0.25228	0.21949	0.56978	0.67608
1.750	0.035	20	0.64166	40,000	45,000	0.07926	0.06935	0.60647	0.18857
1.750	0.042	19	0.76685	40,000	45,000	0.09397	0.08223	0.60405	0.22536
1.750	0.049	18	0.89100	40,000	45,000	0.10832	0.09478	0.60164	0.26184
1.750	0.058	17	1.04907	40,000	45,000	0.12623	0.11045	0.59856	0.30830
1.750	0.065	16	1.17082	40,000	45,000	0.13976	0.12229	0.59618	0.34408
1.750	0.072	15	1.29152	50,000	55,000	0.15295	0.13383	0.59380	0.37955
1.750	0.083	14	1.47908	50,000	55,000	0.17298	0.15136	0.59010	0.43467
1.875	0.065	16	1.25768	40,000	45,000	0.16170	0.15159	0.64042	0.36960
1.875	0.072	15	1.38773	50,000	55,000	0.17709	0.16602	0.63804	0.40782
1.875	0.083	14	1.58999	50,000	55,000	0.20055	0.18801	0.63432	0.46726
1.875	0.095	13	1.80768	50,000	55,000	0.22512	0.21105	0.63030	0.53124
1.875	0.109	12	2.05776	50,000	55,000	0.25249	0.23671	0.62564	0.60473
1.875	0.120	11	2.25131	50,000	55,000	0.27304	0.25598	0.62201	0.66161
1.875	0.134	10	2.49391	50,000	55,000	0.29803	0.27940	0.61743	0.73291
1.883	0.042	19	0.82657	40,000	45,000	0.10936	0.10296	0.65106	0.24291
1.883	0.049	18	0.96066	40,000	45,000	0.12616	0.11878	0.64864	0.28232
1.883	0.058	17	1.13154	40,000	45,000	0.14719	0.13858	0.64556	0.33253
1.883	0.065	16	1.26324	40,000	45,000	0.16311	0.15357	0.64317	0.37124
1.883	0.072	15	1.39389	50,000	55,000	0.17865	0.16820	0.64079	0.40963
1.883	0.083	14	1.59709	50,000	55,000	0.20232	0.19049	0.63707	0.46935
1.883	0.095	13	1.81580	50,000	55,000	0.22713	0.21385	0.63304	0.53363
1.883	0.109	12	2.06708	50,000	55,000	0.25477	0.23987	0.62838	0.60747
1.883	0.120	11	2.26158	50,000	55,000	0.27554	0.25942	0.62475	0.66463

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 7

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
1.883	0.134	10	2.50537	50,000	55,000	0.30078	0.28318	0.62017	0.73628
1.883	0.148	9	2.74498	50,000	55,000	0.32474	0.30575	0.61564	0.80669
1.900	0.035	20	0.69779	40,000	45,000	0.09388	0.08919	0.65949	0.20506
1.900	0.042	19	0.83420	40,000	45,000	0.11141	0.10584	0.65707	0.24515
1.900	0.049	18	0.96957	40,000	45,000	0.12854	0.12211	0.65465	0.28493
1.900	0.058	17	1.14208	40,000	45,000	0.14999	0.14249	0.65156	0.33563
1.900	0.065	16	1.27505	40,000	45,000	0.16622	0.15791	0.64917	0.37471
1.900	0.072	15	1.40698	50,000	55,000	0.18208	0.17297	0.64679	0.41348
1.900	0.083	14	1.61217	50,000	55,000	0.20624	0.19593	0.64307	0.47378
1.900	0.095	13	1.83307	50,000	55,000	0.23157	0.21999	0.63904	0.53870
1.900	0.109	12	2.08689	50,000	55,000	0.25981	0.24681	0.63438	0.61329
1.900	0.120	11	2.28338	50,000	55,000	0.28102	0.26697	0.63075	0.67104
1.900	0.134	10	2.52972	50,000	55,000	0.30683	0.29149	0.62617	0.74343
1.900	0.148	9	2.77187	50,000	55,000	0.33135	0.31478	0.62163	0.81460
1.900	0.165	8	3.06028	50,000	55,000	0.35953	0.34155	0.61626	0.89935
2.000	0.035	20	0.73520	40,000	45,000	0.10431	0.10431	0.69484	0.21606
2.000	0.042	19	0.87910	40,000	45,000	0.12386	0.12386	0.69241	0.25835
2.000	0.049	18	1.02195	40,000	45,000	0.14298	0.14298	0.69000	0.30033
2.000	0.058	17	1.20408	40,000	45,000	0.16696	0.16696	0.68690	0.35385
2.000	0.065	16	1.34454	40,000	45,000	0.18514	0.18514	0.68451	0.39513
2.000	0.072	15	1.48394	50,000	55,000	0.20291	0.20291	0.68212	0.43610
2.000	0.083	14	1.70090	50,000	55,000	0.23004	0.23004	0.67839	0.49986
2.000	0.095	13	1.93462	50,000	55,000	0.25855	0.25855	0.67435	0.56855
2.000	0.109	12	2.20341	50,000	55,000	0.29040	0.29040	0.66967	0.64754
2.000	0.120	11	2.41166	50,000	55,000	0.31439	0.31439	0.66603	0.70874
2.000	0.134	10	2.67297	50,000	55,000	0.34366	0.34366	0.66143	0.78553
2.000	0.148	9	2.93009	50,000	55,000	0.37154	0.37154	0.65686	0.86109
2.197	0.049	18	1.12514	40,000	45,000	0.17369	0.19080	0.75963	0.33065
2.197	0.058	17	1.32622	40,000	45,000	0.20306	0.22306	0.75652	0.38975
2.197	0.065	16	1.48142	40,000	45,000	0.22539	0.24759	0.75412	0.43536
2.197	0.072	15	1.63557	50,000	55,000	0.24726	0.27162	0.75173	0.48066
2.197	0.083	14	1.87569	50,000	55,000	0.28075	0.30840	0.74798	0.55123
2.197	0.095	13	2.13469	50,000	55,000	0.31605	0.34719	0.74392	0.62734
2.197	0.109	12	2.43296	50,000	55,000	0.35568	0.39071	0.73922	0.71500
2.197	0.120	11	2.66438	50,000	55,000	0.38565	0.42364	0.73555	0.78301
2.197	0.134	10	2.95517	50,000	55,000	0.42236	0.46397	0.73091	0.86846
2.197	0.148	9	3.24176	50,000	55,000	0.45751	0.50258	0.72631	0.95269
2.360	0.049	18	1.21053	40,000	45,000	0.20135	0.23760	0.81724	0.35575
2.360	0.058	17	1.42729	40,000	45,000	0.23561	0.27802	0.81413	0.41945
2.360	0.065	16	1.59468	40,000	45,000	0.26169	0.30879	0.81173	0.46864
2.360	0.072	15	1.76103	50,000	55,000	0.28728	0.33899	0.80933	0.51753

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 8

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
2.360	0.083	14	2.02031	50,000	55,000	0.32652	0.38530	0.80557	0.59373
2.360	0.095	13	2.30022	50,000	55,000	0.36801	0.43426	0.80150	0.67599
2.360	0.109	12	2.62289	50,000	55,000	0.41471	0.48936	0.79678	0.77081
2.360	0.120	11	2.87347	50,000	55,000	0.45014	0.53116	0.79309	0.84446
2.360	0.134	10	3.18866	50,000	55,000	0.49366	0.58252	0.78843	0.93708
2.360	0.148	9	3.49965	50,000	55,000	0.53547	0.63185	0.78380	1.02848
2.375	0.042	19	1.04747	40,000	45,000	0.17642	0.20950	0.82497	0.30783
2.375	0.049	18	1.21838	40,000	45,000	0.20400	0.24225	0.82254	0.35806
2.375	0.058	17	1.43659	40,000	45,000	0.23872	0.28349	0.81944	0.42218
2.375	0.065	16	1.60510	40,000	45,000	0.26516	0.31488	0.81703	0.47171
2.375	0.072	15	1.77257	50,000	55,000	0.29111	0.34569	0.81463	0.52092
2.375	0.083	14	2.03362	50,000	55,000	0.33091	0.39296	0.81087	0.59764
2.375	0.095	13	2.31545	50,000	55,000	0.37299	0.44293	0.80680	0.68046
2.375	0.109	12	2.64037	50,000	55,000	0.42037	0.49919	0.80207	0.77595
2.375	0.120	11	2.89271	50,000	55,000	0.45632	0.54188	0.79839	0.85011
2.375	0.134	10	3.21014	50,000	55,000	0.50050	0.59434	0.79372	0.94340
2.375	0.148	9	3.52338	50,000	55,000	0.54295	0.64475	0.78910	1.03546
2.375	0.165	8	3.89811	50,000	55,000	0.59239	0.70347	0.78362	1.14558
2.375	0.180	7	4.22362	50,000	55,000	0.63390	0.75276	0.77875	1.24124
2.375	0.203	6	4.71339	50,000	55,000	0.69405	0.82418	0.77136	1.38518
2.500	0.049	18	1.28386	40,000	45,000	0.22675	0.28343	0.86673	0.37730
2.500	0.058	17	1.51409	40,000	45,000	0.26549	0.33187	0.86362	0.44496
2.500	0.065	16	1.69196	40,000	45,000	0.29503	0.36879	0.86120	0.49723
2.500	0.072	15	1.86878	50,000	55,000	0.32404	0.40506	0.85880	0.54920
2.500	0.083	14	2.14453	50,000	55,000	0.36861	0.46076	0.85504	0.63023
2.500	0.095	13	2.44240	50,000	55,000	0.41581	0.51976	0.85095	0.71777
2.500	0.109	12	2.78602	50,000	55,000	0.46904	0.58630	0.84622	0.81875
2.500	0.120	11	3.05306	50,000	55,000	0.50952	0.63690	0.84252	0.89723
2.500	0.134	10	3.38920	50,000	55,000	0.55935	0.69919	0.83784	0.99602
2.500	0.148	9	3.72115	50,000	55,000	0.60735	0.75918	0.83320	1.09358
2.750	0.072	15	2.06120	50,000	55,000	0.39521	0.54342	0.94715	0.60574
2.750	0.083	14	2.36635	50,000	55,000	0.45011	0.61891	0.94338	0.69542
2.750	0.095	13	2.69629	50,000	55,000	0.50842	0.69908	0.93928	0.79238
2.750	0.109	12	3.07732	50,000	55,000	0.57441	0.78982	0.93452	0.90436
2.750	0.120	11	3.37376	50,000	55,000	0.62475	0.85903	0.93081	0.99148
2.750	0.134	10	3.74732	50,000	55,000	0.68693	0.94453	0.92610	1.10127
2.750	0.148	9	4.11668	50,000	55,000	0.74704	1.02718	0.92143	1.20982
2.857	0.072	15	2.14356	50,000	55,000	0.42783	0.61116	0.98497	0.62995
2.857	0.083	14	2.46129	50,000	55,000	0.48749	0.69637	0.98119	0.72332
2.857	0.095	13	2.80495	50,000	55,000	0.55091	0.78698	0.97709	0.82432
2.857	0.109	12	3.20200	50,000	55,000	0.62278	0.88965	0.97232	0.94100

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 9

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
2.857	0.120	11	3.51102	50,000	55,000	0.67767	0.96805	0.96860	1.03183
2.857	0.134	10	3.90059	50,000	55,000	0.74555	1.06502	0.96389	1.14631
2.857	0.148	9	4.28596	50,000	55,000	0.81126	1.15889	0.95920	1.25957
2.857	0.165	8	4.74828	50,000	55,000	0.88821	1.26881	0.95355	1.39543
2.857	0.180	7	5.15108	50,000	55,000	0.95357	1.36219	0.94860	1.51381
2.875	0.072	15	2.15741	50,000	55,000	0.43345	0.62308	0.99133	0.63402
2.875	0.083	14	2.47726	50,000	55,000	0.49392	0.71001	0.98755	0.72802
2.875	0.095	13	2.82323	50,000	55,000	0.55823	0.80246	0.98345	0.82969
2.875	0.109	12	3.22297	50,000	55,000	0.63111	0.90722	0.97868	0.94717
2.875	0.120	11	3.53411	50,000	55,000	0.68678	0.98725	0.97496	1.03861
2.875	0.134	10	3.92637	50,000	55,000	0.75565	1.08625	0.97024	1.15389
2.875	0.148	9	4.31444	50,000	55,000	0.82233	1.18210	0.96555	1.26793
2.875	0.165	8	4.78003	50,000	55,000	0.90043	1.29437	0.95990	1.40476
2.875	0.180	7	5.18572	50,000	55,000	0.96679	1.38977	0.95494	1.52399
2.875	0.203	6	5.79843	50,000	55,000	1.06431	1.52995	0.94753	1.70405
2.875	0.220	5	6.24403	50,000	55,000	1.13280	1.62839	0.94202	1.83500
3.000	0.072	15	2.25362	50,000	55,000	0.47345	0.71017	1.03552	0.66229
3.000	0.083	14	2.58817	50,000	55,000	0.53976	0.80965	1.03173	0.76061
3.000	0.095	13	2.95017	50,000	55,000	0.61037	0.91555	1.02762	0.86700
3.000	0.109	12	3.36862	50,000	55,000	0.69048	1.03573	1.02285	0.98997
3.000	0.120	11	3.69446	50,000	55,000	0.75176	1.12764	1.01912	1.08573
3.000	0.134	10	4.10543	50,000	55,000	0.82765	1.24148	1.01439	1.20651
3.000	0.148	9	4.51221	50,000	55,000	0.90125	1.35188	1.00969	1.32605
3.000	0.165	8	5.00052	50,000	55,000	0.98759	1.48140	1.00402	1.46956
3.000	0.180	7	5.42624	50,000	55,000	1.06109	1.59164	0.99905	1.59467
3.000	0.203	6	6.06969	50,000	55,000	1.16932	1.75399	0.99161	1.78377
3.000	0.220	5	6.53800	50,000	55,000	1.24551	1.86827	0.98607	1.92140
3.476	0.072	15	2.61999	50,000	55,000	0.64195	1.11572	1.20377	0.76996
3.476	0.083	14	3.01051	50,000	55,000	0.73299	1.27394	1.19997	0.88473
3.476	0.095	13	3.43357	50,000	55,000	0.83025	1.44299	1.19584	1.00906
3.476	0.109	12	3.92326	50,000	55,000	0.94106	1.63558	1.19104	1.15297
3.476	0.120	11	4.30508	50,000	55,000	1.02615	1.78345	1.18728	1.26518
3.476	0.134	10	4.78728	50,000	55,000	1.13196	1.96735	1.18253	1.40689
3.476	0.148	9	5.26530	50,000	55,000	1.23504	2.14649	1.17779	1.54737
3.476	0.165	8	5.84011	50,000	55,000	1.35659	2.35775	1.17207	1.71630
3.476	0.180	7	6.34216	50,000	55,000	1.46062	2.53856	1.16705	1.86384
3.476	0.203	6	7.10264	50,000	55,000	1.61482	2.80655	1.15955	2.08733
3.476	0.220	5	7.65746	50,000	55,000	1.72415	2.99658	1.15394	2.25039
3.500	0.072	15	2.63846	40,000	45,000	0.65113	1.13948	1.21225	0.77539
3.500	0.083	14	3.03180	45,000	48,000	0.74351	1.30116	1.20845	0.89099
3.500	0.095	13	3.45795	45,000	48,000	0.84223	1.47392	1.20432	1.01623

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 10

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
3.500	0.109	12	3.95123	45,000	48,000	0.95472	1.67078	1.19952	1.16119
3.500	0.120	11	4.33586	45,000	48,000	1.04112	1.82196	1.19576	1.27423
3.500	0.134	10	4.82166	45,000	48,000	1.14857	2.00999	1.19100	1.41700
3.500	0.148	9	5.30327	45,000	48,000	1.25326	2.19321	1.18627	1.55853
3.500	0.165	8	5.88244	45,000	48,000	1.37675	2.40931	1.18054	1.72874
3.500	0.180	7	6.38834	45,000	48,000	1.48246	2.59431	1.17552	1.87742
3.500	0.203	6	7.15472	45,000	48,000	1.63919	2.86858	1.16802	2.10264
3.500	0.220	5	7.71390	45,000	48,000	1.75036	3.06313	1.16241	2.26697
3.971	0.083	14	3.44971	45,000	48,000	0.96526	1.91653	1.37493	1.01381
3.971	0.095	13	3.93627	45,000	48,000	1.09478	2.17368	1.37078	1.15680
3.971	0.109	12	4.50004	45,000	48,000	1.24279	2.46757	1.36597	1.32248
3.971	0.120	11	4.94006	45,000	48,000	1.35679	2.69391	1.36220	1.45179
3.971	0.134	10	5.49635	45,000	48,000	1.49899	2.97625	1.35741	1.61528
3.971	0.148	9	6.04845	45,000	48,000	1.63800	3.25226	1.35265	1.77753
3.971	0.165	8	6.71321	45,000	48,000	1.80259	3.57903	1.34689	1.97289
3.971	0.180	7	7.29464	45,000	48,000	1.94402	3.85986	1.34183	2.14376
3.971	0.203	6	8.17682	45,000	48,000	2.15471	4.27818	1.33429	2.40302
3.971	0.220	5	8.82160	45,000	48,000	2.30492	4.57643	1.32863	2.59251
4.000	0.083	14	3.47544	45,000	48,000	0.97985	1.95972	1.38518	1.02137
4.000	0.095	13	3.96572	45,000	48,000	1.11141	2.22282	1.38103	1.16545
4.000	0.109	12	4.53383	45,000	48,000	1.26177	2.52354	1.37622	1.33241
4.000	0.120	11	4.97726	45,000	48,000	1.37759	2.75519	1.37244	1.46273
4.000	0.134	10	5.53789	45,000	48,000	1.52210	3.04419	1.36766	1.62748
4.000	0.148	9	6.09433	45,000	48,000	1.66338	3.32676	1.36289	1.79101
4.000	0.165	8	6.76436	45,000	48,000	1.83068	3.66137	1.35713	1.98792
4.000	0.180	7	7.35044	45,000	48,000	1.97449	3.94899	1.35207	2.16016
4.000	0.203	6	8.23976	45,000	48,000	2.18876	4.37753	1.34453	2.42151
4.000	0.220	5	8.88980	45,000	48,000	2.34158	4.68315	1.33887	2.61255
4.466	0.083	14	3.88890	45,000	48,000	1.22947	2.74542	1.54990	1.14288
4.466	0.095	13	4.43897	45,000	48,000	1.39586	3.11696	1.54575	1.30453
4.466	0.109	12	5.07682	45,000	48,000	1.58647	3.54259	1.54091	1.49198
4.466	0.120	11	5.57505	45,000	48,000	1.73361	3.87116	1.53713	1.63840
4.466	0.134	10	6.20542	45,000	48,000	1.91759	4.28199	1.53233	1.82366
4.466	0.148	9	6.83159	45,000	48,000	2.09793	4.68467	1.52754	2.00768
4.466	0.165	8	7.58632	45,000	48,000	2.31208	5.16287	1.52175	2.22948
4.466	0.180	7	8.24712	45,000	48,000	2.49669	5.57512	1.51667	2.42368
4.466	0.203	6	9.25101	45,000	48,000	2.77274	6.19152	1.50910	2.71870
4.466	0.220	5	9.98574	45,000	48,000	2.97037	6.63282	1.50340	2.93463
4.500	0.083	14	3.91907	45,000	48,000	1.24880	2.80979	1.56192	1.15174
4.500	0.095	13	4.47350	45,000	48,000	1.41788	3.19024	1.55777	1.31468
4.500	0.109	12	5.11644	45,000	48,000	1.61162	3.62614	1.55293	1.50363

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**Allied Tube & Conduit Galvanized Mechanical Steel Tubing Section Properties** p. 11

Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
4.500	0.120	11	5.61866	45,000	48,000	1.76119	3.96268	1.54915	1.65122
4.500	0.134	10	6.25412	45,000	48,000	1.94824	4.38354	1.54434	1.83797
4.500	0.148	9	6.88539	45,000	48,000	2.13161	4.79612	1.53955	2.02349
4.500	0.165	8	7.64629	45,000	48,000	2.34940	5.28615	1.53376	2.24710
4.500	0.180	7	8.31254	45,000	48,000	2.53720	5.70870	1.52868	2.44290
4.500	0.203	6	9.32479	45,000	48,000	2.81805	6.34062	1.52111	2.74038
4.500	0.220	5	10.06570	45,000	48,000	3.01918	6.79315	1.51540	2.95812
5.000	0.095	13	4.98127	45,000	48,000	1.76167	4.40416	1.73451	1.46390
5.000	0.109	12	5.69904	45,000	48,000	2.00426	5.01066	1.72966	1.67484
5.000	0.120	11	6.26006	45,000	48,000	2.19191	5.47978	1.72586	1.83972
5.000	0.134	10	6.97035	45,000	48,000	2.42700	6.06751	1.72104	2.04846
5.000	0.148	9	7.67645	45,000	48,000	2.65796	6.64489	1.71624	2.25597
5.000	0.165	8	8.52821	45,000	48,000	2.93291	7.33228	1.71043	2.50628
5.000	0.180	7	9.27464	45,000	48,000	3.17058	7.92645	1.70531	2.72565
0.625 x 0.625	0.035	20	0.28104	45,000	48,000	0.01538	0.00480	0.24131	0.08260
0.625 x 0.625	0.042	19	0.33325	45,000	48,000	0.01784	0.00557	0.23864	0.09794
0.625 x 0.625	0.049	18	0.38412	45,000	48,000	0.02012	0.00628	0.23602	0.11289
0.625 x 0.625	0.058	17	0.44757	45,000	48,000	0.02279	0.00712	0.23270	0.13154
0.625 x 0.625	0.065	16	0.49540	45,000	48,000	0.02468	0.00771	0.23017	0.14560
0.750 x 0.750	0.035	20	0.34059	45,000	48,000	0.02279	0.00854	0.29227	0.10010
0.750 x 0.750	0.042	19	0.40470	45,000	48,000	0.02659	0.00997	0.28957	0.11894
0.750 x 0.750	0.049	18	0.46749	45,000	48,000	0.03015	0.01130	0.28690	0.13739
0.750 x 0.750	0.058	17	0.54625	45,000	48,000	0.03440	0.01290	0.28352	0.16054
0.750 x 0.750	0.065	16	0.60598	45,000	48,000	0.03747	0.01405	0.28093	0.17810
0.750 x 0.750	0.072	15	0.66438	50,000	55,000	0.04034	0.01512	0.27837	0.19526
0.750 x 0.750	0.083	14	0.75346	50,000	55,000	0.04446	0.01667	0.27440	0.22144
0.813 x 0.813	0.035	20	0.37060	45,000	48,000	0.02708	0.01101	0.31796	0.10892
0.813 x 0.813	0.042	19	0.44071	45,000	48,000	0.03166	0.01287	0.31525	0.12952
0.813 x 0.813	0.049	18	0.50950	45,000	48,000	0.03598	0.01462	0.31256	0.14974
0.813 x 0.813	0.058	17	0.59598	45,000	48,000	0.04117	0.01673	0.30916	0.17516
0.813 x 0.813	0.065	16	0.66171	45,000	48,000	0.04495	0.01827	0.30654	0.19448
0.813 x 0.813	0.072	15	0.72612	50,000	55,000	0.04849	0.01971	0.30396	0.21340
0.813 x 0.813	0.083	14	0.82463	50,000	55,000	0.05363	0.02180	0.29994	0.24236
0.875 x 0.875	0.035	20	0.40013	45,000	48,000	0.03166	0.01385	0.34325	0.11760
0.875 x 0.875	0.042	19	0.47615	45,000	48,000	0.03708	0.01622	0.34053	0.13994
0.875 x 0.875	0.049	18	0.55085	45,000	48,000	0.04222	0.01847	0.33783	0.16189
0.875 x 0.875	0.058	17	0.64492	45,000	48,000	0.04844	0.02119	0.33440	0.18954
0.875 x 0.875	0.065	16	0.71656	45,000	48,000	0.05297	0.02317	0.33177	0.21060
0.875 x 0.875	0.072	15	0.78687	50,000	55,000	0.05726	0.02505	0.32916	0.23126
0.875 x 0.875	0.083	14	0.89466	50,000	55,000	0.06352	0.02779	0.32510	0.26294

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Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
1.000 x 1.000	0.035	20	0.45967	45,000	48,000	0.04199	0.02099	0.39425	0.13510
1.000 x 1.000	0.042	19	0.54761	45,000	48,000	0.04933	0.02466	0.39151	0.16094
1.000 x 1.000	0.049	18	0.63421	45,000	48,000	0.05634	0.02817	0.38879	0.18639
1.000 x 1.000	0.058	17	0.74359	45,000	48,000	0.06488	0.03244	0.38533	0.21854
1.000 x 1.000	0.065	16	0.82714	45,000	48,000	0.07118	0.03559	0.38266	0.24310
1.000 x 1.000	0.072	15	0.90936	50,000	55,000	0.07718	0.03859	0.38002	0.26726
1.000 x 1.000	0.083	14	1.03587	50,000	55,000	0.08603	0.04301	0.37592	0.30444
1.000 x 1.000	0.095	13	1.17012	50,000	55,000	0.09492	0.04746	0.37149	0.34390
1.000 x 1.000	0.109	12	1.32179	50,000	55,000	0.10434	0.05217	0.36646	0.38847
1.000 x 1.000	0.120	11	1.43722	50,000	55,000	0.11106	0.05553	0.36258	0.42240
1.250 x 1.250	0.035	20	0.57876	45,000	48,000	0.06701	0.04188	0.49627	0.17010
1.250 x 1.250	0.042	19	0.69051	45,000	48,000	0.07906	0.04941	0.49350	0.20294
1.250 x 1.250	0.049	18	0.80093	45,000	48,000	0.09069	0.05668	0.49075	0.23539
1.250 x 1.250	0.058	17	0.94094	45,000	48,000	0.10503	0.06564	0.48725	0.27654
1.250 x 1.250	0.065	16	1.04831	45,000	48,000	0.11571	0.07232	0.48454	0.30810
1.250 x 1.250	0.072	15	1.15435	50,000	55,000	0.12601	0.07875	0.48185	0.33926
1.250 x 1.250	0.083	14	1.31828	50,000	55,000	0.14142	0.08838	0.47767	0.38744
1.250 x 1.250	0.095	13	1.49336	50,000	55,000	0.15719	0.09824	0.47316	0.43890
1.250 x 1.250	0.109	12	1.69266	50,000	55,000	0.17428	0.10892	0.46797	0.49747
1.250 x 1.250	0.120	11	1.84552	50,000	55,000	0.18677	0.11673	0.46395	0.54240
1.500 x 1.500	0.035	20	0.69785	45,000	48,000	0.09787	0.07340	0.59830	0.20510
1.500 x 1.500	0.042	19	0.83342	45,000	48,000	0.11580	0.08685	0.59552	0.24494
1.500 x 1.500	0.049	18	0.96765	45,000	48,000	0.13321	0.09990	0.59275	0.28439
1.500 x 1.500	0.058	17	1.13829	45,000	48,000	0.15483	0.11612	0.58922	0.33454
1.500 x 1.500	0.065	16	1.26947	45,000	48,000	0.17108	0.12831	0.58648	0.37310
1.500 x 1.500	0.072	15	1.39933	50,000	55,000	0.18683	0.14012	0.58376	0.41126
1.500 x 1.500	0.083	14	1.60069	50,000	55,000	0.21063	0.15797	0.57952	0.47044
1.500 x 1.500	0.095	13	1.81660	50,000	55,000	0.23527	0.17645	0.57494	0.53390
1.500 x 1.500	0.109	12	2.06353	50,000	55,000	0.26237	0.19677	0.56966	0.60647
1.500 x 1.500	0.120	11	2.25382	50,000	55,000	0.28244	0.21183	0.56555	0.66240
1.625 x 1.625	0.065	16	1.38005	45,000	48,000	0.20282	0.16479	0.63747	0.40560
1.625 x 1.625	0.072	15	1.52182	50,000	55,000	0.22175	0.18017	0.63474	0.44726
1.625 x 1.625	0.083	14	1.74189	50,000	55,000	0.25042	0.20346	0.63048	0.51194
1.625 x 1.625	0.095	13	1.97821	50,000	55,000	0.28025	0.22770	0.62587	0.58140
1.625 x 1.625	0.109	12	2.24897	50,000	55,000	0.31322	0.25449	0.62055	0.66097
1.625 x 1.625	0.120	11	2.45797	50,000	55,000	0.33777	0.27444	0.61641	0.72240
1.750 x 1.750	0.072	15	1.64431	50,000	55,000	0.25966	0.22720	0.68573	0.48326
1.750 x 1.750	0.083	14	1.88309	50,000	55,000	0.29367	0.25696	0.68145	0.55344
1.750 x 1.750	0.095	13	2.13983	50,000	55,000	0.32919	0.28804	0.67682	0.62890
1.750 x 1.750	0.109	12	2.43441	50,000	55,000	0.36860	0.32253	0.67147	0.71547

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Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
1.750 x 1.750	0.120	11	2.66212	50,000	55,000	0.39810	0.34833	0.66730	0.78240
2.000 x 2.000	0.065	16	1.71180	45,000	48,000	0.31430	0.31430	0.79047	0.50310
2.000 x 2.000	0.072	15	1.88929	50,000	55,000	0.34448	0.34448	0.78771	0.55526
2.000 x 2.000	0.083	14	2.16550	50,000	55,000	0.39054	0.39054	0.78341	0.63644
2.000 x 2.000	0.095	13	2.46307	50,000	55,000	0.43893	0.43893	0.77874	0.72390
2.000 x 2.000	0.109	12	2.80528	50,000	55,000	0.49300	0.49300	0.77334	0.82447
2.000 x 2.000	0.120	11	3.07042	50,000	55,000	0.53374	0.53374	0.76913	0.90240
2.000 x 2.000	0.134	10	3.40310	50,000	55,000	0.58342	0.58342	0.76375	1.00018
2.000 x 2.000	0.148	9	3.73045	50,000	55,000	0.63075	0.63075	0.75848	1.09638
2.000 x 2.000	0.165	8	4.12077	50,000	55,000	0.68517	0.68517	0.75215	1.21110
2.000 x 2.000	0.180	7	4.45864	50,000	55,000	0.73050	0.73050	0.74663	1.31040
2.188 x 2.188	0.083	14	2.37731	50,000	55,000	0.47249	0.51691	0.86003	0.69886
2.188 x 2.188	0.095	13	2.70550	50,000	55,000	0.53188	0.58188	0.85534	0.79534
2.188 x 2.188	0.109	12	3.08343	50,000	55,000	0.59851	0.65477	0.84991	0.90644
2.188 x 2.188	0.120	11	3.37664	50,000	55,000	0.64891	0.70990	0.84567	0.99264
2.188 x 2.188	0.134	10	3.74505	50,000	55,000	0.71062	0.77742	0.84032	1.10094
2.250 x 2.250	0.072	15	2.13427	50,000	55,000	0.44130	0.49646	0.88972	0.62726
2.250 x 2.250	0.083	14	2.44791	50,000	55,000	0.50124	0.56389	0.88539	0.71944
2.250 x 2.250	0.095	13	2.78631	50,000	55,000	0.56450	0.63506	0.88070	0.81890
2.250 x 2.250	0.109	12	3.17615	50,000	55,000	0.63556	0.71500	0.87526	0.93347
2.250 x 2.250	0.120	11	3.47872	50,000	55,000	0.68937	0.77554	0.87102	1.02240
2.250 x 2.250	0.134	10	3.85903	50,000	55,000	0.75534	0.84976	0.86558	1.13418
2.500 x 2.500	0.072	15	2.37925	50,000	55,000	0.55012	0.68765	0.99174	0.69926
2.500 x 2.500	0.083	14	2.73032	50,000	55,000	0.62577	0.78221	0.98740	0.80244
2.500 x 2.500	0.095	13	3.10954	50,000	55,000	0.70590	0.88237	0.98268	0.91390
2.500 x 2.500	0.109	12	3.54703	50,000	55,000	0.79628	0.99534	0.97722	1.04248
2.500 x 2.500	0.120	11	3.88702	50,000	55,000	0.86499	1.08124	0.97294	1.14240
2.500 x 2.500	0.134	10	4.31497	50,000	55,000	0.94959	1.18699	0.96746	1.26818
3.000 x 3.000	0.083	14	3.29513	50,000	55,000	0.91633	1.37451	1.19145	0.96844
3.000 x 3.000	0.095	13	3.75602	50,000	55,000	1.03620	1.55430	1.18670	1.10390
3.000 x 3.000	0.109	12	4.28877	50,000	55,000	1.17221	1.75831	1.18119	1.26048
3.000 x 3.000	0.120	11	4.70362	50,000	55,000	1.27623	1.91435	1.17688	1.38240
4.000 x 4.000	0.095	13	5.04897	50,000	55,000	1.88678	3.77357	1.59482	1.48390
4.000 x 4.000	0.109	12	5.77226	50,000	55,000	2.14205	4.28410	1.58925	1.69648
4.000 x 4.000	0.120	11	6.33682	50,000	55,000	2.33868	4.67736	1.58490	1.86240
1.500 x 2.500	0.080	14	2.19000	50,000	55,000	0.43000	0.54000	0.92000	0.64000
1.500 x 2.500	0.100	13	2.46000	50,000	55,000	0.49000	0.61000	0.92000	0.72000
1.500 x 2.500	0.110	12	2.80000	50,000	55,000	0.55000	0.68000	0.91000	0.82000

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Outside Diameter	Decimal Gauge	Nominal Gauge	Lbs/Foot	Yield Strength (psi)	Tensile Strength (psi)	Section Modulus	Moment of Inertia	Radius of Gyration	Area
1.500 x 2.500	0.120	11	3.07000	50,000	55,000	0.59000	0.74000	0.91000	0.90000
1.500 x 3.000	0.080	14	2.45000	50,000	55,000	0.56000	0.84000	1.08000	0.72000
1.500 x 3.000	0.100	13	2.79000	50,000	55,000	0.64000	0.95000	1.08000	0.82000
1.500 x 3.000	0.110	12	3.18000	50,000	55,000	0.72000	1.07000	1.07000	0.93000
1.500 x 3.000	0.120	11	3.48000	50,000	55,000	0.78000	1.17000	1.07000	1.02000
0.750 x 1.500	0.040	20	0.52000	45,000	48,000	0.06000	0.05000	0.54000	0.15000
0.750 x 1.500	0.040	19	0.62000	45,000	48,000	0.07000	0.05000	0.54000	0.18000
0.750 x 1.500	0.050	18	0.72000	45,000	48,000	0.08000	0.06000	0.54000	0.21000
0.750 x 1.500	0.060	17	0.84000	45,000	48,000	0.09000	0.07000	0.54000	0.25000
0.750 x 1.500	0.070	16	0.94000	45,000	48,000	0.10000	0.08000	0.53000	0.28000
1.000 x 1.750	0.040	20	0.64000	45,000	48,000	0.09000	0.08000	0.65000	0.19000
1.000 x 1.750	0.040	19	0.76000	45,000	48,000	0.11000	0.09000	0.65000	0.22000
1.000 x 1.750	0.050	18	0.88000	45,000	48,000	0.12000	0.11000	0.64000	0.26000
1.000 x 1.750	0.060	17	1.04000	45,000	48,000	0.14000	0.13000	0.64000	0.31000
1.000 x 1.750	0.070	16	1.16000	45,000	48,000	0.16000	0.14000	0.64000	0.34000
1.000 x 2.000	0.040	20	0.70000	45,000	48,000	0.11000	0.11000	0.73000	0.21000
1.000 x 2.000	0.040	19	0.83000	45,000	48,000	0.13000	0.13000	0.73000	0.24000
1.000 x 2.000	0.050	18	0.97000	45,000	48,000	0.15000	0.15000	0.72000	0.28000
1.000 x 2.000	0.060	17	1.14000	45,000	48,000	0.17000	0.17000	0.72000	0.33000
1.000 x 2.000	0.070	16	1.27000	45,000	48,000	0.19000	0.19000	0.72000	0.37000
1.000 x 2.000	0.070	15	1.40000	50,000	55,000	0.21000	0.21000	0.72000	0.41000
1.000 x 2.000	0.080	14	1.60000	50,000	55,000	0.24000	0.24000	0.71000	0.47000
2.000 x 3.000	0.070	16	2.15000	45,000	48,000	0.54000	0.82000	1.14000	0.63000
2.000 x 3.000	0.070	15	2.38000	50,000	55,000	0.60000	0.90000	1.13000	0.70000
2.000 x 3.000	0.080	14	2.73000	50,000	55,000	0.68000	1.02000	1.13000	0.80000
2.000 x 3.000	0.100	13	3.11000	50,000	55,000	0.77000	1.15000	1.12000	0.91000
2.000 x 3.000	0.110	12	3.55000	50,000	55,000	0.87000	1.30000	1.12000	1.04000
2.000 x 3.000	0.120	11	3.89000	50,000	55,000	0.94000	1.42000	1.11000	1.14000
2.000 x 3.000	0.130	10	4.31000	50,000	55,000	1.04000	1.56000	1.11000	1.27000
2.000 x 3.000	0.150	9	4.74000	50,000	55,000	1.13000	1.69000	1.10000	1.39000
2.000 x 4.000	0.080	14	3.30000	50,000	55,000	1.03000	2.05000	1.46000	0.97000
2.000 x 4.000	0.100	13	3.76000	50,000	55,000	1.16000	2.32000	1.45000	1.10000
2.000 x 4.000	0.110	12	4.29000	50,000	55,000	1.32000	2.63000	1.45000	1.26000
2.000 x 4.000	0.120	11	4.70000	50,000	55,000	1.44000	2.87000	1.44000	1.38000
2.000 x 4.000	0.130	10	5.23000	50,000	55,000	1.58000	3.16000	1.44000	1.54000
2.000 x 4.000	0.150	9	5.74000	50,000	55,000	1.73000	3.45000	1.43000	1.69000

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