

GAUGE	18	17	16	15	14	13	12	11	1/8	10	9	5/32	8	7	3/16	6	5	4	1/4	
WALL	0.049	0.058	0.065	0.075	0.083	0.095	0.109	0.120	0.125	0.134	0.148	0.156	0.165	0.180	0.188	0.203	0.220	0.238	0.250	
27mm	0.531	0.623	0.693	0.790	0.869	0.982	1.111	1.209												
1.125	0.563	0.661	0.736	0.841	0.924	1.045	1.183	1.288												
1.250	0.629	0.738	0.823	0.941	1.034	1.172	1.328	1.448	1.502	1.597	1.742	1.822								
1.312	0.661	0.777	0.866	0.991	1.089	1.235	1.400	1.528	1.585	1.686	1.840	1.926	2.021	2.176	2.257					
1.500	0.759	0.893	0.996	1.141	1.256	1.426	1.619	1.769	1.836	1.955	2.137	2.239	2.353	2.538	2.634					
1.660	0.843	0.992	1.107	1.270	1.398	1.588	1.806	1.974	2.049	2.184	2.390	2.506	2.634	2.845	2.956					
1.750	0.890	1.048	1.170	1.342	1.478	1.679	1.910	2.089	2.169	2.313	2.532	2.656	2.793	3.018	3.136					
1.875	0.956	1.126	1.257	1.442	1.589	1.806	2.056	2.249	2.336	2.492	2.730	2.864	3.013	3.258	3.387	3.625	3.889	4.161	4.339	
1.900	0.969	1.141	1.274	1.462	1.611	1.831	2.085	2.281	2.370	2.527	2.769	2.906	3.057	3.307	3.437	3.679	3.947	4.225	4.406	
2.000	1.021	1.203	1.343	1.542	1.699	1.933	2.201	2.409	2.503	2.670	2.927	3.072	3.234	3.499	3.638	3.896	4.182	4.479	4.673	
2.125	1.086	1.280	1.430	1.642	1.810	2.060	2.347	2.570	2.670	2.844	3.125	3.281	3.454	3.739	3.889	4.167	4.476	4.796	5.006	
2.250	1.152	1.358	1.517	1.742	1.921	2.186	2.492	2.730	2.837	3.028	3.323	3.489	3.674	3.979	4.140	4.438	4.770	5.114	5.340	
2.375	1.217	1.435	1.604	1.842	2.032	2.313	2.638	2.890	3.004	3.207	3.520	3.697	3.894	4.220	4.391	4.709	5.063	5.432	5.674	
2.500	1.283	1.513	1.690	1.942	2.143	2.440	2.783	3.050	3.171	3.386	3.718	3.905	4.115	4.460	4.642	4.980	5.357	5.750	6.008	
2.750	1.413	1.668	1.864	2.143	2.364	2.694	3.074	3.371	3.504	3.744	4.113	4.322	4.555	4.941	5.144	5.522	5.944	6.385	6.675	
2.875	1.479	1.745	1.951	2.243	2.475	2.821	3.220	3.531	3.671	3.923	4.310	4.530	4.776	5.181	5.395	5.793	6.238	6.703	7.009	
3.000	1.543	1.822	2.037	2.343	2.586	2.947	3.365	3.691	3.838	4.102	4.508	4.738	4.996	5.421	5.646	6.064	6.532	7.021	7.343	
3.250	1.675	1.977	2.211	2.543	2.807	3.201	3.657	4.011	4.172	4.459	4.903	5.155	5.436	5.902	6.148	6.606	7.119	7.656	8.010	
3.500	1.805	2.132	2.385	2.743	3.029	3.455	3.948	4.332	4.506	4.817	5.298	5.571	5.877	6.382	6.650	7.148	7.707	8.291	8.678	
3.750	1.936	2.287	2.558	2.943	3.251	3.708	4.239	4.652	4.839	5.175	5.693	5.988	6.317	6.863	7.152	7.690	8.294	8.927	9.345	
3.875	2.001	2.364	2.645	3.044	3.361	3.835	4.384	4.812	5.006	5.354	5.891	6.196	6.538	7.103	7.403	7.961	8.588	9.245	9.679	
4.000	2.067	2.442	2.732	3.144	3.472	3.962	4.530	4.973	5.173	5.533	6.089	6.404	6.758	7.344	7.654	8.232	8.881	9.562	10.013	
4.500		2.752	3.079	3.544	3.915	4.469	5.112	5.613	5.841	6.248	6.879	7.237	7.639	8.305	8.658	9.316	10.056	10.833	11.348	
4.750		2.906	3.252	3.746	4.137	4.723	5.403	5.934	6.174	6.606	7.274	7.654	8.080	8.785	9.160	9.858	10.644	11.469	12.015	
5.000		3.061	3.426	3.945	4.359	4.977	5.694	6.254	6.508	6.964	7.669	8.070	8.520	9.266	9.662	10.400	11.231	12.104	12.683	
5.500		3.371	3.773	4.345	4.802	5.484	6.276	6.895	7.176	7.679	8.460	8.904	9.401	10.227	10.666	11.484	12.406	13.375	14.018	
5.563		3.410	3.817	4.396	4.858	5.548	6.349	6.976	7.260	7.770	8.559	9.008	9.512	10.348	10.792	11.621	12.554	13.535	14.186	
6.000		3.681	4.120	4.746	5.245	5.991	6.858	7.536	7.843	8.395	9.250	9.737	10.282	11.188	11.670	12.568	13.581	14.646	15.353	
6.250		3.836	4.294	4.946	5.467	6.245	7.149	7.856	8.177	8.753	9.645	10.153	10.723	11.669	12.172	13.110	14.168	15.282	16.020	
6.375		3.913	4.380	5.046	5.577	6.372	7.294	8.016	8.344	8.932	9.843	10.361	10.943	11.909	12.423	13.381	14.462	15.599	16.354	

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	GAUGE	18	17	16	15	14	13	12	11	1/8	10	9	5/32	8	7	3/16	6	5	4	1/4	2
	WALL	0.049	0.058	0.065	0.075	0.083	0.095	0.109	0.120	0.125	0.134	0.148	0.156	0.165	0.180	0.188	0.203	0.220	0.238	0.250	0.280
ROUND SIZES	6.500		3.990	4.467	5.146	5.688	6.499	7.440	8.177	8.511	9.111	10.040	10.570	11.164	12.150	12.673	13.652	14.755	15.917	16.688	
	6.625		4.068	4.554	5.247	5.799	6.625	7.585	8.337	8.678	9.289	10.238	10.778	11.384	12.390	12.924	13.923	15.049	16.235	17.021	18.974
	6.639		4.077	4.564	5.258	5.812	6.640	7.602	8.355	8.696	9.309	10.260	10.801	11.408	12.417	12.953	13.954	15.082	16.270	17.059	19.021
	7.000			4.814	5.547	6.132	7.006	8.022	8.817	9.178	9.826	10.831	11.403	12.045	13.111	13.677	14.736	15.930	17.188	18.023	20.095
	8.000			5.508	6.348	7.018	8.020	9.186	10.099	10.513	11.257	12.411	13.069	13.807	15.033	15.685	16.904	18.280	19.730	20.693	23.086
	8.625			5.942	6.849	7.572	8.655	9.914	10.900	11.348	12.152	13.399	14.110	14.908	16.235	16.940	18.259	19.748	21.318	22.361	24.955
	10.000				7.950	8.791	10.050	11.514	12.662	13.183	14.119	15.572	16.401	17.331	18.878	19.701	21.240	22.979	24.813	26.033	29.067
	10.750					9.456	10.811	12.387	13.623	14.184	15.193	16.758	17.650	18.653	20.320	21.207	22.866	24.741	26.720	28.035	31.309
	12.000					10.564	12.079	13.843	15.225	15.853	16.982	18.734	19.733	20.856	22.723	23.717	25.576	27.678	29.897	31.373	35.047
	12.375							14.264	15.690	16.337	17.500	19.306	20.337	21.494	23.419	24.444	26.362	28.530			
	12.750							12.840	14.716	16.187	16.854	18.055	19.919	20.983	22.177	24.165	25.222	27.202	29.440	31.804	33.375
	14.000							16.171	17.789	18.523	19.844	21.895	23.065	24.380	26.568	27.732	29.912	32.377	34.980	36.713	
	16.000							18.499	20.352	21.193	22.706	25.056	26.397	27.904	30.412	31.748	34.249	37.077	40.064	42.053	
	SQUARE & RECTANGLE SIZES	1.000	0.661	0.776	0.870	0.996	1.093	1.241	1.413	1.543	1.607	1.680	1.840	1.922	2.033	2.199	2.297				
1.250		0.828	0.974	1.091	1.251	1.358	1.544	1.760	1.951	2.005	2.036	2.248	2.353	2.489	2.715	2.836					
1.500		0.989	1.165	1.305	1.498	1.658	1.867	2.131	2.358	2.417	2.548	2.799	2.950	3.103	3.385	3.535	3.753	4.067	4.374	4.568	
2.000				1.726	1.992	2.196	2.503	2.872	3.136	3.267	3.488	3.648	3.828	4.049	4.379	4.574	4.917	5.306	5.638	6.002	
2.500				2.106	2.422	2.672	3.058	3.497	3.837	3.984	4.271	4.701	4.955	5.224	5.679	5.912	6.276	6.778	7.307	7.649	
3.000					2.996	3.315	3.785	4.331	4.755	4.940	5.281	5.802	6.115								
4.000					4.008	4.426	5.056	5.790	6.323	6.587	7.047	7.767	8.187	8.642	9.351	9.787					
5.000								6.948	7.636	7.955	8.527	9.402	9.894	10.447	11.340	11.824					
6.000													12.082	12.761	13.902	14.360	15.636	16.922	18.255	19.149	
2 x 3				2.182	2.510	2.778	3.169	3.636	3.990	4.156	4.257	4.686	4.922	5.206	5.641	5.872	6.168	6.638	7.105	7.437	

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