

**WEIGHT CHART - STUDBOLTS WITH 2NUTS IMPERIAL RANGE (KG/Set)**

LENGTH	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1.1/8"	1.1/4"	1.3/8"	1.1/2"
50	0.054	0.073	0.108	0.135	0.172	0.279	0.400	0.554	0.747	0.960	1.229	1.543
55	0.056	0.076	0.113	0.140	0.178	0.289	0.413	0.571	0.768	0.988	1.263	1.583
60	0.058	0.079	0.117	0.145	0.184	0.298	0.425	0.587	0.790	1.015	1.296	1.623
65	0.061	0.082	0.121	0.150	0.191	0.307	0.438	0.604	0.812	1.042	1.329	1.663
70	0.063	0.085	0.125	0.155	0.197	0.317	0.451	0.621	0.833	1.069	1.362	1.703
75	0.065	0.087	0.129	0.160	0.203	0.326	0.464	0.638	0.855	1.096	1.396	1.743
80	0.067	0.090	0.133	0.165	0.210	0.335	0.477	0.655	0.876	1.123	1.429	1.783
85	0.069	0.093	0.137	0.170	0.216	0.345	0.489	0.671	0.898	1.151	1.462	1.823
90	0.071	0.096	0.141	0.174	0.222	0.354	0.502	0.688	0.920	1.178	1.495	1.863
95	0.074	0.099	0.145	0.179	0.229	0.363	0.515	0.705	0.941	1.205	1.529	1.903
100	0.076	0.102	0.149	0.184	0.235	0.373	0.528	0.722	0.963	1.232	1.562	1.943
105	0.078	0.105	0.153	0.189	0.242	0.382	0.541	0.739	0.985	1.259	1.595	1.983
110	0.080	0.108	0.157	0.194	0.248	0.391	0.553	0.755	1.006	1.286	1.628	2.023
115	0.082	0.111	0.161	0.199	0.254	0.401	0.566	0.772	1.028	1.313	1.662	2.063
120	0.084	0.114	0.165	0.204	0.261	0.410	0.579	0.789	1.050	1.341	1.695	2.103
125	0.086	0.117	0.169	0.209	0.267	0.420	0.592	0.806	1.071	1.368	1.728	2.143
130	0.089	0.120	0.173	0.214	0.273	0.429	0.605	0.823	1.093	1.395	1.761	2.183
135	0.091	0.123	0.177	0.219	0.280	0.438	0.617	0.839	1.115	1.422	1.795	2.223
140	0.093	0.126	0.181	0.224	0.286	0.448	0.630	0.856	1.136	1.449	1.828	2.263
145	0.095	0.128	0.185	0.229	0.292	0.457	0.643	0.873	1.158	1.476	1.861	2.304
150	0.097	0.131	0.189	0.234	0.299	0.466	0.656	0.890	1.180	1.503	1.894	2.344
155	0.099	0.134	0.193	0.239	0.305	0.476	0.669	0.907	1.201	1.531	1.928	2.384
160	0.102	0.137	0.197	0.244	0.311	0.485	0.681	0.923	1.223	1.558	1.961	2.424
165	0.104	0.140	0.201	0.249	0.318	0.494	0.694	0.940	1.245	1.585	1.994	2.464
170	0.106	0.143	0.205	0.254	0.324	0.504	0.707	0.957	1.266	1.612	2.027	2.504
175	0.108	0.146	0.209	0.259	0.330	0.513	0.720	0.974	1.288	1.639	2.061	2.544
180	0.110	0.149	0.213	0.264	0.337	0.522	0.733	0.991	1.309	1.666	2.094	2.584
185	0.112	0.152	0.217	0.269	0.343	0.532	0.745	1.007	1.331	1.694	2.127	2.624
190	0.114	0.155	0.221	0.274	0.349	0.541	0.758	1.024	1.353	1.721	2.160	2.664
195	0.117	0.158	0.225	0.279	0.356	0.550	0.771	1.041	1.374	1.748	2.194	2.704
200	0.119	0.161	0.229	0.284	0.362	0.560	0.784	1.058	1.396	1.775	2.227	2.744
205	0.121	0.164	0.233	0.289	0.369	0.569	0.797	1.075	1.418	1.802	2.260	2.784
210	0.123	0.167	0.237	0.294	0.375	0.578	0.809	1.091	1.439	1.829	2.293	2.824
215	0.125	0.169	0.241	0.299	0.381	0.588	0.822	1.108	1.461	1.856	2.327	2.864
220	0.127	0.172	0.245	0.304	0.388	0.597	0.835	1.125	1.483	1.884	2.360	2.904
225	0.130	0.175	0.249	0.309	0.394	0.607	0.848	1.142	1.504	1.911	2.393	2.944
230	0.132	0.178	0.253	0.314	0.400	0.616	0.861	1.159	1.526	1.938	2.426	2.984
235	0.134	0.181	0.257	0.319	0.407	0.625	0.873	1.175	1.548	1.965	2.460	3.024
240	0.136	0.184	0.261	0.324	0.413	0.635	0.886	1.192	1.569	1.992	2.493	3.064
245	0.138	0.187	0.265	0.329	0.419	0.644	0.899	1.209	1.591	2.019	2.526	3.105
250	0.140	0.190	0.269	0.334	0.426	0.653	0.912	1.226	1.613	2.046	2.559	3.145
255	0.142	0.193	0.274	0.339	0.432	0.663	0.925	1.243	1.634	2.074	2.593	3.185
260	0.145	0.196	0.278	0.344	0.438	0.672	0.937	1.259	1.656	2.101	2.626	3.225
265	0.147	0.199	0.282	0.349	0.445	0.681	0.950	1.276	1.678	2.128	2.659	3.265
270	0.149	0.202	0.286	0.354	0.451	0.691	0.963	1.293	1.699	2.155	2.692	3.305
275	0.151	0.205	0.290	0.359	0.457	0.700	0.976	1.310	1.721	2.182	2.726	3.345
280	0.153	0.208	0.294	0.364	0.464	0.709	0.989	1.327	1.742	2.209	2.759	3.385
285	0.155	0.210	0.298	0.369	0.470	0.719	1.001	1.343	1.764	2.237	2.792	3.425
290	0.158	0.213	0.302	0.374	0.476	0.728	1.014	1.360	1.786	2.264	2.825	3.465
295	0.160	0.216	0.306	0.379	0.483	0.737	1.027	1.377	1.807	2.291	2.859	3.505
300	0.162	0.219	0.310	0.384	0.489	0.747	1.040	1.394	1.829	2.318	2.892	3.545
305	0.164	0.222	0.314	0.389	0.496	0.756	1.053	1.411	1.851	2.345	2.925	3.585
310	0.166	0.225	0.318	0.394	0.502	0.765	1.065	1.427	1.872	2.372	2.958	3.625
315	0.168	0.228	0.322	0.399	0.508	0.775	1.078	1.444	1.894	2.399	2.992	3.665
320	0.170	0.231	0.326	0.404	0.515	0.784	1.091	1.461	1.916	2.427	3.025	3.705
325	0.173	0.234	0.330	0.409	0.521	0.794	1.104	1.478	1.937	2.454	3.058	3.745
330	0.175	0.237	0.334	0.414	0.527	0.803	1.117	1.495	1.959	2.481	3.091	3.785
335	0.177	0.240	0.338	0.419	0.534	0.812	1.129	1.511	1.981	2.508	3.125	3.825
340	0.179	0.243	0.342	0.424	0.540	0.822	1.142	1.528	2.002	2.535	3.158	3.865
345	0.181	0.246	0.346	0.429	0.546	0.831	1.155	1.545	2.024	2.562	3.191	3.906
350	0.183	0.249	0.350	0.434	0.553	0.840	1.168	1.562	2.046	2.589	3.224	3.946
355	0.186	0.251	0.354	0.439	0.559	0.850	1.181	1.579	2.067	2.617	3.258	3.986
360	0.188	0.254	0.358	0.444	0.565	0.859	1.193	1.595	2.089	2.644	3.291	4.026
365	0.190	0.257	0.362	0.449	0.572	0.868	1.206	1.612	2.111	2.671	3.324	4.066
370	0.192	0.260	0.366	0.454	0.578	0.878	1.219	1.629	2.132	2.698	3.357	4.106
375	0.194	0.263	0.370	0.459	0.584	0.887	1.232	1.646	2.154	2.725	3.391	4.146
380	0.196	0.266	0.374	0.464	0.591	0.896	1.245	1.663	2.175	2.752	3.424	4.186
385	0.199	0.269	0.378	0.469	0.597	0.906	1.257	1.679	2.197	2.780	3.457	4.226
390	0.201	0.272	0.382	0.474	0.603	0.915	1.270	1.696	2.219	2.807	3.490	4.266
395	0.203	0.275	0.386	0.479	0.610	0.924	1.283	1.713	2.240	2.834	3.524	4.306
400	0.205	0.278	0.390	0.483	0.616	0.934	1.296	1.730	2.262	2.861	3.557	4.346
405	0.207	0.281	0.394	0.488	0.623	0.943	1.309	1.747	2.284	2.888	3.590	4.386
410	0.209	0.284	0.398	0.493	0.629	0.952	1.321	1.763	2.305	2.915	3.623	4.426
415	0.211	0.287	0.402	0.498	0.635	0.962	1.334	1.780	2.327	2.942	3.657	4.466
420	0.214	0.290	0.406	0.503	0.642	0.971	1.347	1.797	2.349	2.970	3.690	4.506
425	0.216	0.292	0.410	0.508	0.648	0.981	1.360	1.814	2.370	2.997	3.723	4.546
430	0.218	0.295	0.414	0.513	0.654	0.990	1.373	1.831	2.392	3.024	3.756	4.586
435	0.220	0.298	0.418	0.518	0.661	0.999	1.385	1.847	2.414	3.051	3.790	4.626
440	0.222	0.301	0.422	0.523	0.667	1.009	1.398	1.864	2.435	3.078	3.823	4.666
445	0.224	0.304	0.426	0.528	0.673	1.018	1.411	1.881	2.457	3.105	3.856	4.707
450	0.227	0.307	0.430	0.533	0.680	1.027	1.424	1.898	2.479	3.132	3.889	4.747
455	0.229	0.310	0.435	0.538	0.686	1.037	1.437	1.915	2.500	3.160	3.923	4.787
460	0.231	0.313	0.439	0.543	0.692	1.046	1.449	1.931	2.522	3.187	3.956	4.827
465	0.233	0.316	0.443	0.548	0.699	1.055	1.462	1.948	2.544	3.214	3.989	4.867
470	0.235	0.319	0.447	0.553	0.705	1.065	1.475	1.965	2.565	3.241	4.022	4.907
475	0.237	0.322	0.451	0.558	0.711	1.074	1.488	1.982	2.587	3.268	4.056	4.947
480	0.239	0.325	0.455	0.563	0.718	1.083	1.501	1.999	2.608	3.295	4.089	4.987
485	0.242	0.328	0.459	0.568	0.724	1.093	1.513	2.015	2.630	3.323	4.122	5.027
490	0.244	0.331	0.463	0.573	0.730	1.102	1.526	2.032	2.652	3.350	4.155	5.067
495	0.246	0.333	0.467	0.578	0.737	1.111	1.539	2.049	2.673	3.377	4.189	5.107
500	0.248	0.336	0.471	0.583	0.743	1.121	1.552	2.066	2.695	3.404	4.222	5.147

**WEIGHT CHART - STUBBOLTS WITH 2NUTS IMPERIAL RANGE (KG/Set)**

LENGTH	1.5/8"	1.3/4"	1.7/8"	2"	2.1/4"	2.1/2"	2.3/4"	3"	3.1/4"	3.1/2"	3.3/4"	4"
50	1.950	2.333	2.830	3.394	4.667	6.282	7.953	9.769	11.970	15.499	18.579	22.948
55	1.997	2.389	2.894	3.467	4.761	6.398	8.094	9.938	12.173	15.735	18.844	23.253
60	2.045	2.444	2.958	3.540	4.854	6.515	8.236	10.108	12.375	15.971	19.109	23.557
65	2.092	2.500	3.022	3.613	4.948	6.631	8.377	10.277	12.578	16.207	19.374	23.862
70	2.139	2.555	3.086	3.686	5.041	6.748	8.519	10.447	12.780	16.443	19.639	24.166
75	2.187	2.611	3.150	3.759	5.135	6.864	8.660	10.616	12.983	16.679	19.904	24.470
80	2.234	2.666	3.214	3.832	5.228	6.981	8.802	10.786	13.185	16.915	20.169	24.775
85	2.282	2.722	3.278	3.905	5.322	7.097	8.943	10.955	13.388	17.151	20.434	25.079
90	2.329	2.777	3.342	3.978	5.415	7.214	9.085	11.125	13.590	17.387	20.699	25.384
95	2.376	2.833	3.406	4.051	5.509	7.330	9.226	11.294	13.793	17.623	20.964	25.688
100	2.424	2.888	3.470	4.124	5.602	7.447	9.368	11.464	13.995	17.859	21.229	25.992
105	2.471	2.944	3.534	4.197	5.696	7.563	9.509	11.633	14.198	18.095	21.494	26.297
110	2.519	2.999	3.598	4.270	5.789	7.680	9.651	11.803	14.400	18.331	21.759	26.601
115	2.566	3.055	3.662	4.343	5.883	7.796	9.792	11.972	14.603	18.567	22.024	26.906
120	2.613	3.110	3.726	4.416	5.976	7.913	9.934	12.142	14.805	18.803	22.289	27.210
125	2.661	3.166	3.790	4.489	6.070	8.029	10.075	12.311	15.008	19.039	22.554	27.514
130	2.708	3.221	3.854	4.562	6.163	8.146	10.217	12.481	15.210	19.275	22.819	27.819
135	2.756	3.277	3.918	4.635	6.257	8.262	10.358	12.650	15.413	19.511	23.084	28.123
140	2.803	3.330	3.982	4.708	6.350	8.379	10.500	12.820	15.615	19.747	23.349	28.428
145	2.850	3.388	4.046	4.781	6.444	8.495	10.641	12.989	15.818	19.983	23.614	28.732
150	2.898	3.443	4.110	4.854	6.537	8.612	10.783	13.159	16.020	20.219	23.879	29.036
155	2.945	3.499	4.174	4.927	6.631	8.728	10.924	13.328	16.223	20.455	24.144	29.341
160	2.993	3.554	4.238	5.000	6.724	8.845	11.066	13.498	16.425	20.691	24.409	29.645
165	3.040	3.610	4.302	5.073	6.818	8.961	11.207	13.667	16.628	20.927	24.674	29.950
170	3.087	3.665	4.366	5.146	6.911	9.078	11.349	13.837	16.830	21.163	24.939	30.254
175	3.135	3.721	4.430	5.219	7.005	9.194	11.490	14.006	17.033	21.399	25.204	30.558
180	3.182	3.776	4.494	5.292	7.098	9.311	11.632	14.176	17.235	21.635	25.469	30.863
185	3.230	3.832	4.558	5.365	7.192	9.427	11.773	14.345	17.438	21.871	25.734	31.167
190	3.277	3.887	4.622	5.438	7.285	9.544	11.915	14.515	17.640	22.107	25.999	31.472
195	3.324	3.943	4.686	5.511	7.379	9.660	12.056	14.684	17.843	22.343	26.264	31.776
200	3.372	3.998	4.750	5.584	7.472	9.777	12.198	14.854	18.045	22.579	26.529	32.080
205	3.419	4.054	4.814	5.657	7.566	9.893	12.339	15.023	18.248	22.815	26.794	32.385
210	3.467	4.109	4.878	5.730	7.659	10.010	12.480	15.193	18.450	23.051	27.059	32.689
215	3.514	4.165	4.942	5.803	7.753	10.126	12.620	15.362	18.653	23.287	27.324	32.994
220	3.561	4.220	5.006	5.876	7.846	10.243	12.760	15.532	18.855	23.523	27.589	33.298
225	3.609	4.276	5.070	5.949	7.940	10.359	12.900	15.701	19.058	23.759	27.854	33.602
230	3.656	4.331	5.134	6.022	8.033	10.476	13.040	15.871	19.260	23.995	28.119	33.907
235	3.704	4.387	5.198	6.095	8.127	10.592	13.180	16.040	19.463	24.231	28.384	34.211
240	3.751	4.442	5.262	6.168	8.220	10.709	13.330	16.210	19.665	24.467	28.649	34.516
245	3.798	4.498	5.326	6.241	8.314	10.825	13.470	16.379	19.868	24.703	28.914	34.820
250	3.846	4.553	5.390	6.314	8.407	10.942	13.610	16.549	20.070	24.939	29.179	35.124
255	3.893	4.609	5.454	6.387	8.501	11.058	13.750	16.718	20.273	25.175	29.444	35.429
260	3.941	4.664	5.518	6.460	8.594	11.175	13.890	16.888	20.475	25.411	29.709	35.733
265	3.988	4.720	5.582	6.533	8.688	11.291	14.030	17.057	20.678	25.647	29.974	36.038
270	4.035	4.775	5.646	6.606	8.781	11.408	14.170	17.227	20.880	25.883	30.239	36.342
275	4.083	4.831	5.710	6.679	8.875	11.524	14.320	17.396	21.080	26.119	30.504	36.646
280	4.130	4.886	5.774	6.752	8.968	11.641	14.462	17.566	21.285	26.355	30.769	36.951
285	4.178	4.942	5.838	6.825	9.062	11.757	14.603	17.735	21.488	26.591	31.034	37.255
290	4.225	4.997	5.902	6.898	9.155	11.874	14.745	17.905	21.690	26.827	31.299	37.560
295	4.272	5.053	5.966	6.971	9.249	11.990	14.886	18.074	21.893	27.063	31.564	37.864
300	4.320	5.108	6.030	7.044	9.342	12.107	15.028	18.244	22.095	27.299	31.829	38.168
305	4.367	5.164	6.094	7.117	9.436	12.223	15.169	18.413	22.298	27.535	32.094	38.473
310	4.415	5.219	6.158	7.190	9.529	12.340	15.311	18.583	22.500	27.771	32.359	38.777
315	4.462	5.275	6.222	7.263	9.623	12.456	15.452	18.752	22.703	28.007	32.624	39.082
320	4.509	5.330	6.286	7.336	9.716	12.573	15.594	18.922	22.905	28.243	32.889	39.386
325	4.557	5.386	6.350	7.409	9.810	12.689	15.735	19.091	23.108	28.479	33.154	39.690
330	4.604	5.441	6.414	7.482	9.903	12.806	15.877	19.261	23.310	28.715	33.419	39.995
335	4.652	5.497	6.478	7.555	9.997	12.922	16.018	19.430	23.513	28.951	33.684	40.299
340	4.699	5.552	6.542	7.628	10.090	13.039	16.160	19.600	23.715	29.187	33.949	40.604
345	4.746	5.608	6.606	7.701	10.184	13.155	16.301	19.769	23.918	29.423	34.214	40.908
350	4.794	5.663	6.670	7.774	10.277	13.272	16.443	19.939	24.120	29.659	34.479	41.212
355	4.841	5.719	6.734	7.847	10.371	13.388	16.584	20.108	24.323	29.895	34.744	41.517
360	4.889	5.774	6.798	7.920	10.464	13.505	16.726	20.278	24.525	30.131	35.009	41.821
365	4.936	5.830	6.862	7.993	10.558	13.621	16.867	20.447	24.728	30.367	35.274	42.126
370	4.983	5.885	6.926	8.066	10.651	13.738	17.009	20.617	24.930	30.603	35.539	42.430
375	5.031	5.941	6.990	8.139	10.745	13.854	17.150	20.786	25.133	30.839	35.804	42.734
380	5.078	5.996	7.054	8.212	10.838	13.971	17.292	20.956	25.335	31.075	36.069	43.039
385	5.126	6.052	7.118	8.285	10.932	14.087	17.433	21.125	25.538	31.311	36.334	43.343
390	5.173	6.107	7.182	8.358	11.025	14.204	17.575	21.295	25.740	31.547	36.599	43.648
395	5.220	6.163	7.246	8.431	11.119	14.320	17.716	21.464	25.943	31.783	36.864	43.952
400	5.268	6.218	7.310	8.504	11.212	14.437	17.858	21.634	26.145	32.019	37.129	44.256
405	5.315	6.274	7.374	8.577	11.306	14.553	17.999	21.803	26.348	32.255	37.394	44.561
410	5.363	6.329	7.438	8.650	11.399	14.670	18.141	21.973	26.550	32.491	37.659	44.865
415	5.410	6.385	7.502	8.723	11.493	14.786	18.282	22.142	26.753	32.727	37.924	45.170
420	5.457	6.440	7.566	8.796	11.586	14.903	18.424	22.312	26.955	32.963	38.189	45.474
425	5.505	6.496	7.630	8.869	11.680	15.019	18.565	22.481	27.158	33.199	38.454	45.778
430	5.552	6.551	7.694	8.942	11.773	15.136	18.707	22.651	27.360	33.435	38.719	46.083
435	5.600	6.607	7.758	9.015	11.867	15.252	18.848	22.820	27.563	33.671	38.984	46.387
440	5.647	6.662	7.822	9.088	11.960	15.369	18.990	22.990	27.765	33.907	39.249	46.692
445	5.694	6.718	7.886	9.161	12.054	15.485	19.131	23.159	27.968	34.143	39.514	46.996
450	5.742	6.773	7.950	9.234	12.147	15.602	19.273	23.329	28.170	34.379	39.779	47.300
455	5.789	6.829	8.014	9.307	12.241	15.718	19.414	23.498	28.373	34.615	40.044	47.605
460	5.837	6.884	8.078	9.380	12.334	15.835	19.556	23.668	28.575	34.851	40.309	47.909
465	5.884	6.940	8.142	9.453	12.428	15.951	19.697	23.837	28.778	35.087	40.574	48.214
470	5.931	6.995	8.206	9.526	12.521	16.068	19.839	24.007	28.980	35.323	40.839	48.518
475	5.979	7.051	8.270	9.599	12.615	16.184	19.980	24.176	29.183	35.559	41.104	48.822
480	6.026	7.106	8.334	9.672	12.708	16.301	20.122	24.346				