

Anexo IV. Tablas KN.

KN Calculation - PFC_ARRASTRERO_GRAN_SOL

Fixed Trim = 0 m (+ve by stern)

Specific gravity = 1.025; (Density = 1.025 tonne/m³)

VCG = 0 m; TCG = 0 m

Displacement (intact) tonne	Draft Amidships m	LCG m	TCG m	Assumed VCG m	KN 10.0 deg. Starb.	KN 20.0 deg. Starb.	KN 30.0 deg. Starb.	KN 40.0 deg. Starb.	KN 50.0 deg. Starb.	KN 60.0 deg. Starb.
2.534	0.000	6.959	0.000	0.000	0.145	1.398	3.113	3.318	3.305	3.164
5.049	0.128	8.191	0.000	0.000	0.282	1.493	3.018	3.280	3.303	3.195
9.086	0.255	9.447	0.000	0.000	0.445	1.551	2.871	3.231	3.298	3.233
14.95	0.383	10.573	0.000	0.000	0.588	1.582	2.662	3.170	3.292	3.279
22.88	0.510	11.542	0.000	0.000	0.693	1.595	2.499	3.101	3.286	3.329
32.85	0.638	12.318	0.000	0.000	0.764	1.596	2.382	3.020	3.279	3.383
44.71	0.766	12.894	0.000	0.000	0.809	1.587	2.298	2.919	3.273	3.438
58.27	0.893	13.321	0.000	0.000	0.833	1.575	2.237	2.830	3.265	3.491
73.35	1.021	13.640	0.000	0.000	0.844	1.562	2.190	2.764	3.255	3.542
89.74	1.148	13.882	0.000	0.000	0.845	1.549	2.155	2.717	3.238	3.591
107.2	1.276	14.066	0.000	0.000	0.839	1.535	2.131	2.685	3.217	3.637
125.7	1.403	14.205	0.000	0.000	0.828	1.523	2.115	2.663	3.202	3.679
145.0	1.531	14.310	0.000	0.000	0.814	1.510	2.104	2.650	3.195	3.718
165.0	1.659	14.387	0.000	0.000	0.799	1.499	2.099	2.646	3.193	3.752
185.7	1.786	14.442	0.000	0.000	0.785	1.488	2.096	2.647	3.196	3.776
206.9	1.914	14.479	0.000	0.000	0.771	1.479	2.096	2.653	3.203	3.784
228.7	2.041	14.502	0.000	0.000	0.759	1.470	2.097	2.662	3.215	3.781
250.9	2.169	14.514	0.000	0.000	0.749	1.463	2.100	2.673	3.229	3.770
273.8	2.297	14.507	0.000	0.000	0.741	1.457	2.104	2.686	3.247	3.755
297.4	2.424	14.482	0.000	0.000	0.735	1.452	2.109	2.700	3.267	3.737
321.7	2.552	14.438	0.000	0.000	0.731	1.449	2.114	2.715	3.285	3.718
346.9	2.679	14.376	0.000	0.000	0.728	1.446	2.119	2.730	3.297	3.698
372.9	2.807	14.298	0.000	0.000	0.726	1.444	2.124	2.746	3.305	3.677
399.7	2.934	14.210	0.000	0.000	0.725	1.442	2.129	2.763	3.308	3.657
427.0	3.062	14.121	0.000	0.000	0.724	1.441	2.135	2.780	3.307	3.636
454.8	3.190	14.034	0.000	0.000	0.723	1.441	2.140	2.797	3.302	3.615
483.0	3.317	13.954	0.000	0.000	0.723	1.441	2.146	2.809	3.294	3.595
511.5	3.445	13.881	0.000	0.000	0.723	1.443	2.153	2.814	3.283	3.574
540.3	3.572	13.816	0.000	0.000	0.723	1.445	2.159	2.815	3.270	3.553
569.3	3.700	13.757	0.000	0.000	0.724	1.447	2.167	2.811	3.254	3.531

KN Calculation - PFC_ARRASTRERO_GRAN_SOL

Fixed Trim = 0.5 m (+ve by stern)

Specific gravity = 1.025; (Density = 1.025 tonne/m³)

VCG = 0 m; TCG = 0 m

Displacement (intact) tonne	Draft Amidships m	LCG m	TCG m	Assumed VCG m	KN 10.0 deg. Starb.	KN 20.0 deg. Starb.	KN 30.0 deg. Starb.	KN 40.0 deg. Starb.	KN 50.0 deg. Starb.	KN 60.0 deg. Starb.
4.251	0.000	6.936	0.000	0.000	0.195	1.129	2.942	3.282	3.308	3.201
7.133	0.128	7.812	0.000	0.000	0.317	1.291	2.758	3.244	3.306	3.234
11.30	0.255	8.699	0.000	0.000	0.456	1.401	2.589	3.196	3.303	3.273
17.01	0.383	9.552	0.000	0.000	0.582	1.476	2.464	3.138	3.299	3.318
24.49	0.510	10.334	0.000	0.000	0.681	1.524	2.374	3.065	3.296	3.370
33.89	0.638	11.039	0.000	0.000	0.755	1.553	2.307	2.962	3.294	3.424
45.20	0.766	11.651	0.000	0.000	0.804	1.567	2.256	2.870	3.290	3.480
58.33	0.893	12.166	0.000	0.000	0.832	1.571	2.218	2.802	3.284	3.535
73.05	1.021	12.579	0.000	0.000	0.846	1.567	2.189	2.755	3.269	3.588
89.17	1.148	12.909	0.000	0.000	0.849	1.558	2.167	2.723	3.248	3.638
106.5	1.276	13.170	0.000	0.000	0.845	1.548	2.151	2.703	3.233	3.683
124.9	1.403	13.378	0.000	0.000	0.835	1.538	2.140	2.692	3.225	3.723
144.2	1.531	13.541	0.000	0.000	0.823	1.528	2.133	2.686	3.225	3.758
164.3	1.659	13.669	0.000	0.000	0.809	1.518	2.129	2.686	3.229	3.782
185.1	1.786	13.768	0.000	0.000	0.795	1.510	2.128	2.689	3.236	3.794
206.6	1.914	13.841	0.000	0.000	0.782	1.502	2.130	2.695	3.246	3.796
228.6	2.041	13.894	0.000	0.000	0.772	1.495	2.132	2.704	3.258	3.791
251.5	2.169	13.915	0.000	0.000	0.763	1.489	2.135	2.714	3.272	3.781
275.3	2.296	13.907	0.000	0.000	0.756	1.483	2.138	2.725	3.288	3.767
300.0	2.424	13.873	0.000	0.000	0.750	1.478	2.141	2.737	3.303	3.749
325.6	2.552	13.813	0.000	0.000	0.746	1.473	2.144	2.750	3.314	3.729
352.0	2.679	13.739	0.000	0.000	0.742	1.468	2.147	2.764	3.322	3.708
378.9	2.807	13.660	0.000	0.000	0.738	1.464	2.150	2.778	3.325	3.685
406.4	2.934	13.583	0.000	0.000	0.735	1.460	2.153	2.793	3.324	3.663
434.2	3.062	13.510	0.000	0.000	0.732	1.457	2.156	2.806	3.319	3.640
462.2	3.190	13.443	0.000	0.000	0.730	1.455	2.160	2.816	3.310	3.618
490.5	3.317	13.383	0.000	0.000	0.728	1.453	2.164	2.822	3.299	3.595
519.1	3.445	13.329	0.000	0.000	0.727	1.452	2.169	2.823	3.285	3.572
547.8	3.572	13.281	0.000	0.000	0.727	1.453	2.174	2.820	3.269	3.548
576.8	3.700	13.239	0.000	0.000	0.727	1.454	2.179	2.813	3.251	3.524

KN Calculation - PFC_ARRASTRERO_GRAN_SOL

Fixed Trim = 1 m (+ve by stern)

Specific gravity = 1.025; (Density = 1.025 tonne/m³)

VCG = 0 m; TCG = 0 m

Displacement (intact) tonne	Draft Amidships m	LCG m	TCG m	Assumed VCG m	KN 10.0 deg. Starb.	KN 20.0 deg. Starb.	KN 30.0 deg. Starb.	KN 40.0 deg. Starb.	KN 50.0 deg. Starb.	KN 60.0 deg. Starb.
6.322	0.000	6.950	0.000	0.000	0.243	1.036	2.530	3.244	3.319	3.262
9.596	0.128	7.637	0.000	0.000	0.355	1.197	2.426	3.202	3.318	3.299
14.02	0.255	8.320	0.000	0.000	0.477	1.316	2.351	3.148	3.317	3.344
19.84	0.383	8.989	0.000	0.000	0.587	1.404	2.298	3.067	3.318	3.393
27.24	0.510	9.621	0.000	0.000	0.678	1.467	2.260	2.966	3.319	3.446
36.33	0.638	10.203	0.000	0.000	0.747	1.512	2.232	2.881	3.319	3.500
47.21	0.766	10.736	0.000	0.000	0.797	1.541	2.210	2.819	3.317	3.556
59.82	0.893	11.215	0.000	0.000	0.829	1.558	2.194	2.776	3.303	3.610
74.08	1.021	11.638	0.000	0.000	0.847	1.566	2.183	2.748	3.282	3.661
89.85	1.148	12.005	0.000	0.000	0.853	1.566	2.177	2.732	3.266	3.706
106.9	1.276	12.314	0.000	0.000	0.850	1.563	2.172	2.725	3.259	3.745
125.2	1.403	12.569	0.000	0.000	0.842	1.557	2.170	2.724	3.257	3.778
144.4	1.531	12.777	0.000	0.000	0.831	1.551	2.169	2.727	3.260	3.796
164.5	1.659	12.946	0.000	0.000	0.820	1.544	2.169	2.732	3.267	3.803
185.5	1.786	13.081	0.000	0.000	0.808	1.538	2.170	2.738	3.277	3.804
207.4	1.914	13.173	0.000	0.000	0.798	1.533	2.172	2.744	3.290	3.801
230.3	2.041	13.224	0.000	0.000	0.789	1.527	2.173	2.752	3.304	3.794
254.3	2.169	13.234	0.000	0.000	0.781	1.520	2.175	2.760	3.317	3.783
279.4	2.296	13.209	0.000	0.000	0.774	1.513	2.175	2.770	3.328	3.769
305.3	2.424	13.163	0.000	0.000	0.767	1.505	2.176	2.780	3.336	3.752
331.9	2.552	13.109	0.000	0.000	0.760	1.497	2.177	2.791	3.341	3.732
359.0	2.679	13.053	0.000	0.000	0.754	1.490	2.177	2.803	3.342	3.711
386.5	2.807	12.999	0.000	0.000	0.748	1.483	2.178	2.813	3.340	3.689
414.2	2.934	12.948	0.000	0.000	0.743	1.477	2.178	2.822	3.335	3.665
442.1	3.062	12.903	0.000	0.000	0.739	1.472	2.179	2.828	3.326	3.641
470.3	3.190	12.861	0.000	0.000	0.735	1.467	2.181	2.831	3.314	3.616
498.7	3.317	12.823	0.000	0.000	0.733	1.464	2.183	2.830	3.299	3.591
527.2	3.445	12.790	0.000	0.000	0.731	1.462	2.186	2.827	3.283	3.565
555.9	3.572	12.761	0.000	0.000	0.730	1.461	2.188	2.819	3.263	3.540
584.8	3.700	12.735	0.000	0.000	0.730	1.462	2.188	2.808	3.242	3.515

KN Calculation - PFC_ARRASTRERO_GRAN_SOL

Fixed Trim = 1.5 m (+ve by stern)

Specific gravity = 1.025; (Density = 1.025 tonne/m³)

VCG = 0 m; TCG = 0 m

Displacement (intact) tonne	Draft Amidships m	LCG m	TCG m	Assumed VCG m	KN 10.0 deg. Starb.	KN 20.0 deg. Starb.	KN 30.0 deg. Starb.	KN 40.0 deg. Starb.	KN 50.0 deg. Starb.	KN 60.0 deg. Starb.
8.732	0.000	6.973	0.000	0.000	0.290	1.011	2.228	3.193	3.342	3.361
12.41	0.128	7.536	0.000	0.000	0.394	1.158	2.204	3.125	3.345	3.407
17.19	0.255	8.090	0.000	0.000	0.502	1.272	2.188	3.029	3.350	3.456
23.24	0.383	8.631	0.000	0.000	0.600	1.362	2.179	2.938	3.355	3.507
30.75	0.510	9.150	0.000	0.000	0.682	1.432	2.174	2.867	3.358	3.561
39.82	0.638	9.635	0.000	0.000	0.745	1.484	2.173	2.817	3.358	3.616
50.50	0.766	10.085	0.000	0.000	0.793	1.521	2.175	2.783	3.343	3.666
62.78	0.893	10.500	0.000	0.000	0.825	1.547	2.178	2.763	3.322	3.712
76.63	1.021	10.881	0.000	0.000	0.845	1.563	2.184	2.754	3.307	3.752
91.97	1.148	11.226	0.000	0.000	0.854	1.573	2.190	2.752	3.297	3.787
108.7	1.276	11.535	0.000	0.000	0.855	1.579	2.197	2.756	3.294	3.813
126.7	1.403	11.807	0.000	0.000	0.850	1.580	2.204	2.763	3.295	3.824
145.8	1.531	12.041	0.000	0.000	0.843	1.580	2.210	2.770	3.301	3.823
166.1	1.659	12.224	0.000	0.000	0.835	1.578	2.214	2.778	3.310	3.818
187.7	1.786	12.351	0.000	0.000	0.827	1.574	2.217	2.786	3.322	3.811
210.6	1.914	12.424	0.000	0.000	0.819	1.568	2.217	2.794	3.334	3.802
234.9	2.041	12.448	0.000	0.000	0.811	1.561	2.217	2.802	3.345	3.791
260.1	2.169	12.444	0.000	0.000	0.802	1.551	2.216	2.810	3.354	3.779
286.1	2.297	12.428	0.000	0.000	0.792	1.541	2.214	2.818	3.360	3.764
312.7	2.424	12.405	0.000	0.000	0.782	1.531	2.212	2.826	3.362	3.748
339.7	2.552	12.384	0.000	0.000	0.772	1.521	2.210	2.834	3.362	3.729
367.1	2.679	12.362	0.000	0.000	0.764	1.511	2.208	2.839	3.358	3.708
394.7	2.807	12.342	0.000	0.000	0.756	1.501	2.206	2.843	3.350	3.686
422.6	2.934	12.323	0.000	0.000	0.750	1.493	2.205	2.844	3.340	3.661
450.6	3.062	12.306	0.000	0.000	0.745	1.486	2.204	2.843	3.328	3.635
478.9	3.190	12.290	0.000	0.000	0.740	1.480	2.203	2.839	3.312	3.609
507.2	3.317	12.277	0.000	0.000	0.737	1.475	2.201	2.833	3.294	3.582
535.8	3.445	12.265	0.000	0.000	0.735	1.472	2.199	2.824	3.274	3.556
564.4	3.572	12.255	0.000	0.000	0.734	1.470	2.196	2.812	3.252	3.530
593.2	3.700	12.247	0.000	0.000	0.734	1.470	2.191	2.797	3.229	3.504

KN Calculation - PFC_ARRASTRERO_GRAN_SOL

Fixed Trim = -0.5 m (+ve by stern)

Specific gravity = 1.025; (Density = 1.025 tonne/m³)

VCG = 0 m; TCG = 0 m

Displacement (intact) tonne	Draft Amidships m	LCG m	TCG m	Assumed VCG m	KN 10.0 deg. Starb.	KN 20.0 deg. Starb.	KN 30.0 deg. Starb.	KN 40.0 deg. Starb.	KN 50.0 deg. Starb.	KN 60.0 deg. Starb.
1.203	0.000	7.131	0.000	0.000	0.101	2.234	3.204	3.350	3.308	3.144
3.481	0.128	9.362	0.000	0.000	0.264	1.910	3.105	3.311	3.307	3.177
7.750	0.255	11.296	0.000	0.000	0.454	1.773	2.972	3.253	3.300	3.220
14.23	0.383	12.639	0.000	0.000	0.603	1.701	2.806	3.183	3.291	3.268
22.77	0.510	13.449	0.000	0.000	0.705	1.653	2.597	3.108	3.281	3.319
33.27	0.638	13.971	0.000	0.000	0.772	1.617	2.435	3.028	3.271	3.371
45.57	0.766	14.325	0.000	0.000	0.812	1.591	2.320	2.941	3.261	3.423
59.48	0.893	14.573	0.000	0.000	0.833	1.571	2.237	2.847	3.250	3.473
74.82	1.021	14.749	0.000	0.000	0.841	1.554	2.180	2.767	3.238	3.522
91.38	1.148	14.875	0.000	0.000	0.839	1.539	2.141	2.706	3.223	3.567
109.0	1.276	14.963	0.000	0.000	0.832	1.524	2.114	2.664	3.204	3.611
127.4	1.403	15.024	0.000	0.000	0.820	1.510	2.096	2.638	3.184	3.651
146.6	1.531	15.063	0.000	0.000	0.806	1.496	2.084	2.623	3.169	3.689
166.5	1.659	15.085	0.000	0.000	0.791	1.484	2.076	2.617	3.161	3.722
187.0	1.786	15.094	0.000	0.000	0.776	1.472	2.073	2.617	3.162	3.744
208.0	1.914	15.093	0.000	0.000	0.762	1.461	2.071	2.622	3.169	3.755
229.6	2.041	15.083	0.000	0.000	0.750	1.452	2.072	2.631	3.182	3.754
251.5	2.169	15.067	0.000	0.000	0.740	1.444	2.074	2.642	3.198	3.746
273.9	2.297	15.044	0.000	0.000	0.731	1.437	2.078	2.656	3.217	3.733
296.8	2.424	15.018	0.000	0.000	0.725	1.432	2.083	2.671	3.237	3.717
320.2	2.552	14.980	0.000	0.000	0.720	1.428	2.088	2.687	3.255	3.700
344.4	2.679	14.929	0.000	0.000	0.717	1.426	2.095	2.703	3.270	3.683
369.3	2.807	14.867	0.000	0.000	0.715	1.425	2.101	2.721	3.281	3.665
395.0	2.934	14.794	0.000	0.000	0.714	1.425	2.108	2.739	3.287	3.647
421.4	3.062	14.711	0.000	0.000	0.715	1.426	2.115	2.758	3.290	3.629
448.7	3.190	14.620	0.000	0.000	0.716	1.427	2.123	2.775	3.289	3.610
476.5	3.317	14.530	0.000	0.000	0.717	1.430	2.130	2.789	3.284	3.591
504.8	3.445	14.443	0.000	0.000	0.718	1.433	2.139	2.799	3.276	3.572
533.5	3.572	14.361	0.000	0.000	0.720	1.436	2.147	2.804	3.266	3.553
562.5	3.700	14.288	0.000	0.000	0.722	1.441	2.156	2.803	3.252	3.533