

# Hydrostatics

Relative water density : 1,0250

Mean shell thickness : 0,0280 (m)

*Trim: 0,000 (m)*

Draft (m)	Volume (m <sup>3</sup> )	Displ FW (tonnes)	Displ. (tonnes)	LCB (m)	VCB (m)	TCB (m)	Cb	Aw (m <sup>2</sup> )	LCF (m)	KMt (m)	KMI (m)	MCT (t*m/cm)	TpCm (t/cm)
0,000	0,25	0,25	0,26	48,517	0,000	0,000	0,000	332,8	45,754	7807682,269	53944470,56	1633,6	3,412
0,100	67,58	67,58	69,26	46,659	0,052	0,000	0,437	572,1	46,531	163,293	1705,74	13,754	5,864
0,200	129,14	129,14	132,37	46,551	0,105	0,000	0,418	630,4	46,383	89,367	973,70	15,003	6,462
0,300	195,41	195,41	200,30	46,461	0,159	0,000	0,421	675,5	46,231	63,546	716,68	16,708	6,924
0,400	265,68	265,68	272,32	46,372	0,213	0,000	0,430	714,1	46,063	50,126	584,05	18,509	7,320
0,500	339,51	339,51	347,99	46,280	0,267	0,000	0,439	749,0	45,874	41,855	502,88	20,362	7,677
0,600	416,61	416,61	427,03	46,181	0,322	0,000	0,449	781,1	45,670	36,214	447,78	22,244	8,007
0,700	496,79	496,79	509,21	46,077	0,377	0,000	0,459	811,3	45,452	32,093	407,88	24,157	8,316
0,800	579,84	579,84	594,33	45,967	0,432	0,000	0,469	839,7	45,223	28,937	377,45	26,086	8,607
0,900	665,63	665,63	682,27	45,853	0,487	0,000	0,478	866,6	44,987	26,432	353,52	28,040	8,883
1,000	754,01	754,01	772,86	45,734	0,543	0,000	0,488	892,3	44,743	24,388	334,00	30,002	9,146
1,100	844,87	844,87	865,99	45,611	0,599	0,000	0,497	916,7	44,496	22,677	317,83	31,982	9,396
1,200	938,09	938,09	961,54	45,485	0,655	0,000	0,506	939,9	44,246	21,217	304,04	33,961	9,634
1,300	1033,56	1033,56	1059,40	45,356	0,711	0,000	0,514	962,1	43,993	19,957	292,23	35,954	9,861
1,400	1131,18	1131,18	1159,46	45,225	0,767	0,000	0,523	983,2	43,738	18,852	281,90	37,947	10,078
1,500	1230,85	1230,85	1261,63	45,091	0,823	0,000	0,531	1003,5	43,482	17,879	272,78	39,943	10,286
1,600	1332,51	1332,51	1365,82	44,956	0,879	0,000	0,539	1023,1	43,223	17,023	264,69	41,947	10,487
1,700	1436,07	1436,07	1471,98	44,820	0,936	0,000	0,546	1042,0	42,963	16,261	257,41	43,950	10,680
1,800	1541,50	1541,50	1580,03	44,682	0,992	0,000	0,554	1060,4	42,702	15,585	250,90	45,968	10,869
1,900	1648,72	1648,72	1689,93	44,542	1,049	0,000	0,561	1078,2	42,437	14,978	244,90	47,974	11,052
2,000	1757,69	1757,69	1801,64	44,402	1,105	0,000	0,568	1095,7	42,171	14,436	239,51	50,002	11,231
2,100	1868,38	1868,38	1915,09	44,260	1,162	0,000	0,575	1112,7	41,903	13,946	234,53	52,028	11,405
2,200	1980,75	1980,75	2030,27	44,117	1,219	0,000	0,582	1129,3	41,630	13,504	229,94	54,059	11,575
2,300	2094,76	2094,76	2147,13	43,972	1,275	0,000	0,589	1145,6	41,358	13,103	225,76	56,112	11,743
2,400	2210,38	2210,38	2265,64	43,827	1,332	0,000	0,596	1161,6	41,081	12,739	221,84	58,160	11,907
2,500	2327,58	2327,58	2385,77	43,680	1,389	0,000	0,602	1177,4	40,802	12,407	218,22	60,223	12,068
2,600	2446,34	2446,34	2507,49	43,532	1,446	0,000	0,609	1192,8	40,522	12,103	214,86	62,299	12,226
2,700	2566,63	2566,63	2630,79	43,383	1,503	0,000	0,615	1208,0	40,239	11,826	211,72	64,382	12,382
2,800	2688,42	2688,42	2755,63	43,232	1,560	0,000	0,621	1223,0	39,954	11,571	208,78	66,476	12,536
2,900	2811,70	2811,70	2881,99	43,081	1,617	0,000	0,627	1237,7	39,667	11,336	206,03	68,581	12,687
3,000	2936,44	2936,44	3009,85	42,928	1,674	0,000	0,633	1252,3	39,380	11,120	203,48	70,710	12,836
3,100	3062,62	3062,62	3139,18	42,775	1,731	0,000	0,639	1266,6	39,089	10,921	201,02	72,830	12,983
3,200	3190,22	3190,22	3269,98	42,620	1,788	0,000	0,645	1280,8	38,797	10,737	198,74	74,976	13,128
3,300	3319,24	3319,24	3402,22	42,465	1,846	0,000	0,651	1294,8	38,504	10,568	196,59	77,134	13,272
3,400	3449,64	3449,64	3535,88	42,308	1,903	0,000	0,656	1308,7	38,212	10,410	194,56	79,304	13,414
3,500	3581,42	3581,42	3670,95	42,151	1,960	0,000	0,662	1322,3	37,915	10,265	192,63	81,483	13,554
3,600	3714,55	3714,55	3807,41	41,993	2,018	0,000	0,667	1335,8	37,620	10,130	190,81	83,679	13,692

Draft (m)	Volume (m <sup>3</sup> )	Displ FW (tonnes)	Displ. (tonnes)	LCB (m)	VCB (m)	TCB (m)	Cb	Aw (m <sup>2</sup> )	LCF (m)	KMt (m)	KMI (m)	MCT (t*m/cm)	TpCm (t/cm)
3,700	3849,03	3849,03	3945,25	41,834	2,075	0,000	0,673	1349,2	37,323	10,005	189,08	85,890	13,830
3,800	3984,84	3984,84	4084,46	41,674	2,132	0,000	0,678	1362,5	37,024	9,889	187,44	88,113	13,965
3,900	4121,96	4121,96	4225,01	41,513	2,190	0,000	0,684	1375,6	36,724	9,782	185,88	90,349	14,100
4,000	4260,39	4260,39	4366,90	41,352	2,247	0,000	0,689	1388,4	36,430	9,682	184,31	92,558	14,231
4,100	4399,92	4399,92	4509,92	41,191	2,305	0,000	0,694	1398,6	36,211	9,589	181,79	94,234	14,335
4,200	4540,31	4540,31	4653,81	41,033	2,362	0,000	0,699	1406,7	36,047	9,500	178,64	95,505	14,419
4,300	4681,41	4681,41	4798,44	40,880	2,420	0,000	0,704	1413,5	35,916	9,414	175,23	96,533	14,489
4,400	4823,13	4823,13	4943,71	40,731	2,477	0,000	0,709	1419,4	35,806	9,331	171,68	97,382	14,549
4,500	4965,39	4965,39	5089,52	40,588	2,534	0,000	0,714	1424,6	35,711	9,251	168,09	98,093	14,602
4,600	5108,12	5108,12	5235,83	40,449	2,590	0,000	0,718	1429,1	35,628	9,175	164,50	98,691	14,649
4,700	5251,28	5251,28	5382,56	40,316	2,647	0,000	0,723	1433,2	35,555	9,101	160,96	99,200	14,690
4,800	5394,82	5394,82	5529,69	40,187	2,703	0,000	0,727	1436,7	35,487	9,031	157,42	99,601	14,726
4,900	5538,67	5538,67	5677,14	40,064	2,759	0,000	0,731	1439,8	35,426	8,963	153,94	99,916	14,758
5,000	5682,83	5682,83	5824,90	39,945	2,815	0,000	0,735	1442,6	35,369	8,900	150,53	100,17	14,787
5,100	5827,23	5827,23	5972,91	39,830	2,871	0,000	0,739	1445,0	35,317	8,838	147,16	100,33	14,811
5,200	5971,86	5971,86	6121,15	39,719	2,926	0,000	0,743	1447,0	35,265	8,780	143,83	100,41	14,831
5,300	6116,67	6116,67	6269,58	39,612	2,982	0,000	0,746	1448,6	35,214	8,725	140,55	100,41	14,849
5,400	6261,63	6261,63	6418,17	39,509	3,037	0,000	0,750	1450,0	35,167	8,673	137,34	100,35	14,863
5,500	6406,72	6406,72	6566,89	39,410	3,092	0,000	0,753	1450,9	35,112	8,623	134,09	100,15	14,872
5,600	6551,89	6551,89	6715,69	39,314	3,146	0,000	0,757	1451,6	35,057	8,576	130,91	99,884	14,879
5,700	6697,11	6697,11	6864,54	39,220	3,201	0,000	0,760	1451,6	34,991	8,532	127,65	99,453	14,879
5,800	6842,33	6842,33	7013,39	39,129	3,255	0,000	0,763	1451,3	34,919	8,491	124,39	98,901	14,876
5,900	6987,53	6987,53	7162,21	39,041	3,309	0,000	0,766	1452,8	34,924	8,453	122,06	99,011	14,891
6,000	7132,93	7132,93	7311,25	38,957	3,363	0,000	0,769	1455,1	34,963	8,417	120,13	99,389	14,915
6,100	7278,57	7278,57	7460,53	38,877	3,417	0,000	0,772	1457,5	35,006	8,384	118,29	99,767	14,939
6,200	7424,44	7424,44	7610,05	38,801	3,471	0,000	0,774	1459,8	35,052	8,353	116,51	100,14	14,963

NOTE 1: Draft (and all other vertical heights) is measured from base Z=0,000

NOTE 2: All calculated coefficients based on project length, draft and beam.

## Nomenclature

Draft	<i>Moulded draft, measured from baseline</i>
Volume	<i>Total displaced volume</i>
Displ FW	<i>Displacement fresh water</i>
Displ.	<i>Displacement</i>
LCB	<i>Longitudinal center of buoyancy, measured from the aft perpendicular at X=0.0</i>
VCB	<i>Vertical center of buoyancy</i>
TCB	<i>Transverse center of buoyancy</i>
Cb	<i>Block coefficient</i>
Aw	<i>Waterplane area</i>
LCF	<i>Waterplane center of floatation, measured from the aft perpendicular at X=0.0</i>
KMt	<i>Transverse metacentric height</i>
KMI	<i>Longitudinal metacentric height</i>
MCT	<i>Moment to change trim one unit</i>
TpCm	<i>Weight to change the immersion with one unit</i>