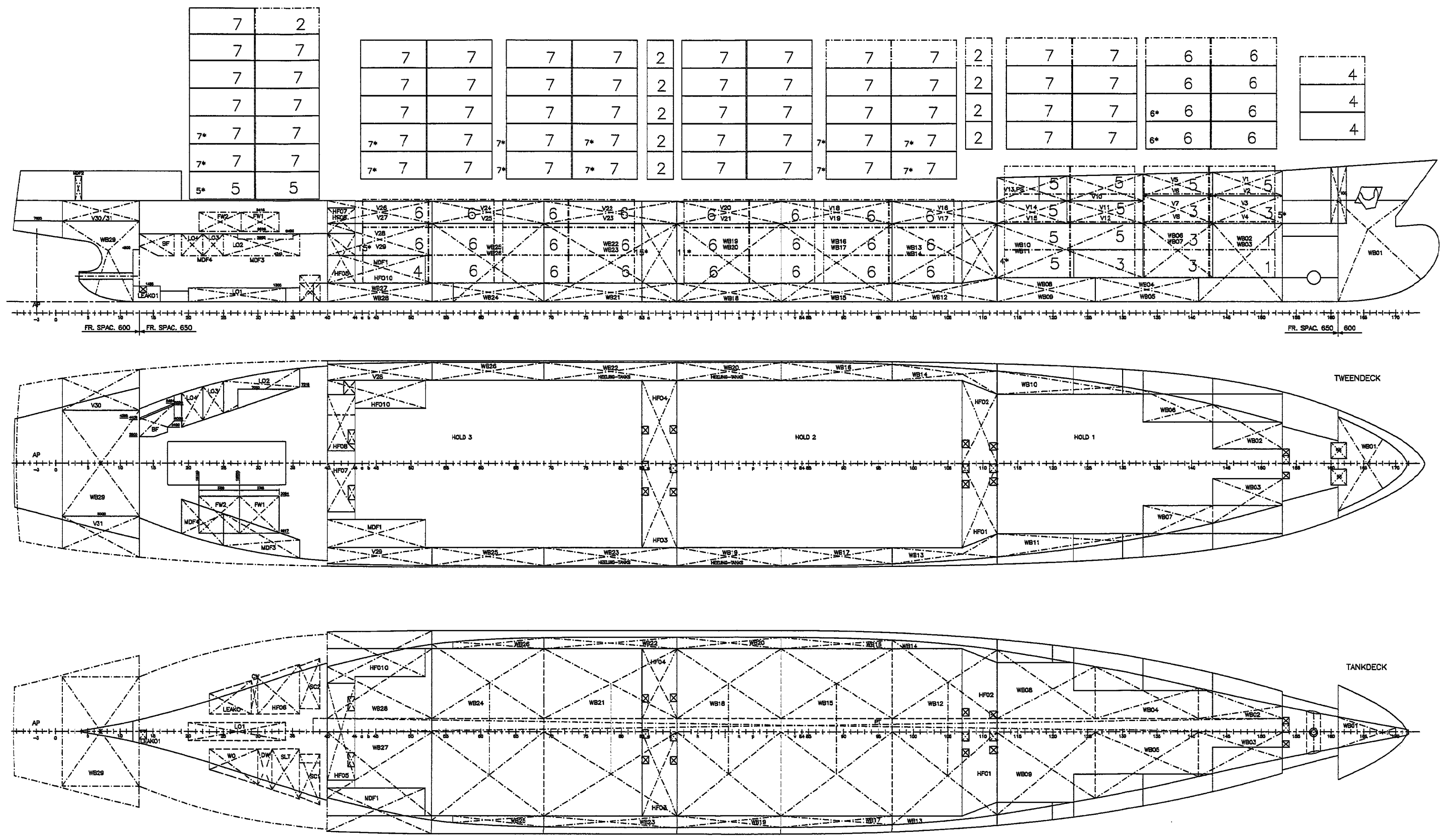


Deadweight Scale

All drafts are measured to underside of keel
Water density = 1.02500 tonnes/metre^3

Draft (m)	Displacement salt water (t)	Displacement fresh water (t)	Deadweight salt water (t)	Deadweight fresh water (t)	Tonnes per cm Immers-n (t)	Moment to change Trim 1 cm (t m)
2.76	3659	3570	0	0	16.5	100.3
2.89	3881	3787	223	129	16.7	102.9
3.02	4106	4005	447	347	16.8	104.1
3.16	4331	4226	673	567	16.9	105.4
3.29	4558	4447	900	789	17.0	106.8
3.49	4901	4782	1243	1123	17.1	108.7
3.69	5247	5119	1589	1461	17.3	110.6
3.83	5479	5346	1821	1688	17.4	111.9
3.96	5713	5574	2055	1915	17.5	113.1
4.03	5830	5688	2172	2030	17.5	113.8
4.10	5948	5803	2290	2145	17.6	114.4
4.16	6066	5918	2407	2259	17.6	115.0
4.23	6184	6033	2526	2375	17.7	115.7
4.30	6302	6149	2644	2490	17.7	116.3
4.36	6421	6264	2763	2606	17.7	116.9
4.43	6540	6381	2882	2722	17.8	117.6
4.50	6659	6497	3001	2839	17.8	118.2
4.56	6779	6614	3121	2956	17.9	118.9
4.63	6899	6731	3241	3073	17.9	119.6
4.70	7019	6848	3361	3190	18.0	120.2
4.76	7140	6966	3482	3308	18.0	120.9
4.83	7261	7084	3603	3426	18.1	121.6
4.90	7382	7202	3724	3544	18.1	122.2
4.97	7504	7321	3846	3663	18.2	122.9
5.03	7626	7440	3967	3781	18.2	123.7
5.10	7748	7559	4090	3901	18.3	124.4
5.17	7870	7678	4212	4020	18.3	125.1
5.23	7993	7798	4335	4140	18.4	125.9
5.30	8116	7918	4458	4260	18.4	126.7
5.37	8240	8039	4582	4381	18.5	127.5
5.43	8364	8160	4706	4502	18.5	128.4
5.50	8488	8281	4830	4623	18.6	129.2
5.57	8613	8403	4954	4744	18.6	130.1
5.63	8738	8525	5079	4866	18.7	131.1
5.70	8863	8647	5205	4989	18.7	132.1
5.77	8989	8770	5331	5111	18.8	133.2
5.84	9115	8893	5457	5234	18.9	134.3
5.90	9242	9016	5583	5358	18.9	135.5
5.97	9369	9140	5711	5482	19.0	136.1
6.04	9496	9265	5838	5606	19.1	137.5
6.10	9624	9389	5966	5731	19.1	138.8
6.17	9753	9515	6094	5857	19.2	140.2
6.24	9882	9641	6223	5982	19.3	141.7
6.30	10011	9767	6353	6109	19.4	143.2
6.37	10141	9894	6483	6236	19.4	144.8
6.44	10272	10021	6614	6363	19.5	146.4
6.51	10403	10149	6745	6491	19.6	148.0
6.57	10535	10278	6877	6620	19.7	149.7
6.64	10667	10407	7009	6749	19.8	151.5
6.71	10800	10537	7142	6878	19.9	153.3
6.77	10934	10667	7275	7009	20.0	155.1
6.84	11068	10798	7410	7140	20.0	156.8
6.91	11202	10929	7544	7271	20.1	158.3
6.97	11338	11061	7679	7403	20.2	159.7
7.04	11473	11193	7815	7535	20.3	161.0
7.11	11609	11326	7951	7668	20.3	162.2
7.17	11746	11460	8088	7801	20.4	163.3
7.24	11883	11593	8225	7935	20.5	164.4
7.31	12021	11727	8362	8069	20.5	165.7
7.38	12159	11862	8500	8204	20.6	167.0
7.44	12297	11997	8639	8339	20.7	168.3
7.51	12436	12133	8778	8474	20.7	169.5
7.58	12575	12269	8917	8610	20.8	171.3
7.64	12715	12405	9057	8747	20.9	173.2
7.78	12997	12680	9339	9022	21.1	177.1

TANK CAPACITIES

Item	Description	Volume m³	Density t/m³	Weight t	VCG m	LCG m	TCG m	IT m4
PT	Pipe tunnel PS	198.80	1.025	203.77	0.97	73.51	-0.65	15
WB01	Waterballast 1 C	173.11	1.025	177.44	5.33	124.66	0.00	123.4
WB02	Waterballast 2 PS	108.65	1.025	111.37	4.45	112.43	-2.63	24.6
WB03	Waterballast 3 SB	130.65	1.025	133.92	3.89	112.40	2.30	24.9
WB04	Waterballast 4 PS DB	56.75	1.025	58.17	1.35	103.00	-2.87	53.2
WB05	Waterballast 5 SB DB	85.68	1.025	87.82	1.28	103.17	2.14	121.8
WB06	Waterballast 6 PS	53.74	1.025	55.08	5.21	105.98	-4.88	8.1
WB07	Waterballast 7 SB	53.74	1.025	55.08	5.21	105.98	4.88	8.1
WB08	Waterballast 8 PS DB	83.47	1.025	85.56	1.31	93.88	-3.65	136
WB09	Waterballast 9 SB DB	109.96	1.025	112.71	1.27	93.93	2.94	250.6
WB10	Waterballast 10 PS	100.40	1.025	102.91	4.81	98.27	-6.42	41.1
WB11	Waterballast 11 SB	100.40	1.025	102.91	4.81	98.27	6.42	41.1
WB12	Waterballast 12 C DB	196.58	1.025	201.49	1.06	84.74	0.08	2946.4
WB13	Waterballast 13 SB	58.34	1.025	59.80	4.91	84.80	8.19	4
WB14	Waterballast 14 PS	58.34	1.025	59.80	4.91	84.80	-8.19	4
WB15	Waterballast 15 C DB	213.79	1.025	219.13	1.01	74.59	0.07	3308.8
WB16	Waterballast 16 PS	87.79	1.025	89.98	4.50	74.41	-8.58	3.8
WB17	Waterballast 17 SB	87.79	1.025	89.98	4.50	74.41	8.58	3.8
WB18	Waterballast 18 C DB	200.97	1.025	205.99	1.01	64.53	0.07	3097
WB19	Waterballast 19 SB	87.73	1.025	89.92	4.44	64.53	8.62	3.9
WB20	Waterballast 20 PS	87.73	1.025	89.92	4.44	64.53	-8.62	3.9
WB21	Waterballast 21 C DB	254.43	1.025	260.79	1.01	53.48	0.07	3922.8
WB22	Waterballast 22 PS	110.39	1.025	113.15	4.45	53.50	-8.61	4.9
WB23	Waterballast 23 SB	110.39	1.025	113.15	4.45	53.50	8.61	4.9
WB24	Waterballast 24 C DB	212.15	1.025	217.45	1.01	42.12	0.07	3444.5
WB25	Waterballast 25 SB	84.68	1.025	86.80	4.65	42.29	8.59	4.2
WB26	Waterballast 26 PS	84.68	1.025	86.80	4.65	42.29	-8.59	4.2
WB27	Waterballast 27 SB DB	97.20	1.025	99.63	1.01	32.24	3.18	352.2
WB28	Waterballast 28 PS DB	75.45	1.025	77.34	1.04	32.30	-3.91	201.6
WB29	Waterballast 29 C	124.92	1.025	128.04	6.26	6.65	0.00	588
WB	Total Waterballast	3488.70		3575.92		0.00		

Item	Description	Volume m³	Density t/m³	Weight t	VCG m	LCG m	TCG m	IT m4
HFO1	HFO tank 1 SB	110.09	1.00	110.09	4.70	87.87	3.83	85.5
HFO2	HFO tank 2 PS	114.95	1.00	114.95	4.70	87.85	-3.86	97.4
HFO3	HFO tank 3 SB	127.64	1.00	127.64	4.57	58.03	4.09	114.5
HFO4	HFO tank 4 PS	128.18	1.00	128.18	4.58	58.04	-3.93	125.3
HFO5	HFO settl. tank C	88.52	1.00	88.52	3.97	28.37	0.09	145.5
HFO6	HFO over.tank PS	21.85	1.00	21.85	1.47	22.75	-3.31	14.8
HFO7	HFO day tank SB	24.04	1.00	24.04	7.61	28.34	2.28	22.1
HFO8	HFO day tank PS	27.94	1.00	27.94	7.60	28.35	-4.16	27.7
HFO10	HFO tank 10 PS	91.09	1.00	91.09	3.50	31.31	-6.81	45.2
HFO	Total HFO	734.30		734.30				
MDF1	MDF tank 1 SB	72.02	0.88	63.38	3.14	32.13	6.85	38.1
MDF2	MDF day tank E.D.	2.43	0.88	2.14	10.65	3.90	-7.10	0.3
MDF3	MDF tank 3 SB	23.36	0.88	20.56	5.56	20.74	6.80	13.9
MDF4	MDF tank 4 SB	13.91	0.88	12.24	5.63	15.49	5.13	11.5
MDF	Total MDF	111.72		98.31				
LO1	Lub.oil circ. tank 1 C	19.66	0.90	17.69	0.65	18.71	0.00	3.6
LO2	Lub.oil tank 2 PS	20.93	0.90	18.84	5.49	20.77	-6.84	10
LO3	Lub.oil tank 3 PS	7.14	0.90	6.43	5.61	16.43	-5.46	4.9
LO4	Lub.oil tank 4 PS	6.78	0.90	6.10	5.65	14.50	-4.79	5.4
LO	Total Lub. oil	54.51		49.06				
FW1	Freshwater 1 SB	23.30	1.00	23.30	7.52	20.73	4.86	13.4
FW2	Freshwater 2 SB	23.30	1.00	23.30	7.52	16.98	4.86	13.4
FW	Total Freshwater	46.60		46.60				
BF	Boiler feed water tank PS	6.39	1.00	6.39	5.84	11.29	-3.64	3.8
CW	Cooling water tank PS	2.64	1.00	2.64	1.51	20.33	-2.94	2.1
DW	Dirty water tank SB	6.23	1.00	6.23	1.48	21.32	3.10	3.2
LEAKO	Leak oil tank PS	10.39	1.00	10.39	1.57	18.35	-2.69	5.4
LEAKO1	Leak oil tank CPP	0.32	1.00	0.32	1.20	9.93	0.32	0.05
SLT	Sludgetank SB	15.84	1.00	15.84	1.46	23.31	3.39	11.4
WO	Waste oil tank SB	12.96	1.00	12.96	1.55	18.74	2.74	4.6
SC1	Sea chest 1 SB	13.46			1.562	25.561	4.115	
SC2	Sea chest 2 PS	8.02			1.108	25.574	-3.709	

COG for container (20', VCG 50% cont.-height)

Hold 1

Position	LCG	Tier 02 Anz	Tier 02 VCG	Tier 04 Anz	Tier 04 VCG	Tier 06 Anz	Tier 06 VCG	Tier 08 Anz	Tier 08 VCG
Bay 03	112.448	1	3.595	1	6.211	3	8.827	5	11.443
Bay 05	106.316	3	3.595	3	6.211	3	8.827	5	11.443
Bay 07	99.410	3	3.595	5	6.211	5	8.827	5	11.443
Bay 09	93.278	5	3.595	5	6.211	5	8.827	5	11.443

TCG for rows

Row	00	01	03	02	04
TCG	0.000	2.620	5.240	-2.620	-5.240

Gesamt: 62 TEU LCG: 101.094 m; VCG: 8.086 m; TCG: 0.000 m

Hold 2

Position	LCG	Tier 02 Anz	Tier 02 VCG	Tier 04 Anz	Tier 04 VCG	Tier 06 Anz	Tier 06 VCG
Bay 13	82.548	6	3.095	6	5.711	6	8.327
Bay 15	78.416	6	3.095	6	5.711	6	8.327
Bay 19	69.510	6	3.095	6	5.711	6	8.327
Bay 21	63.378	6	3.095	6	5.711	6	8.327

TCG for rows

Row	01	03	05	02	04	06
TCG	1.310	3.930	6.550	-1.310	-3.930	-6.550

Gesamt: 72 TEU LCG: 72.963 m; VCG: 5.711 m; TCG: 0.000 m

Hold 3

Position	LCG	Tier 02 Anz	Tier 02 VCG	Tier 04 Anz	Tier 04 VCG	Tier 06 Anz	Tier 06 VCG
Bay 25	52.649	6	3.095	6	5.711	6	8.327
Bay 27	46.498	6	3.095	6	5.711	6	8.327
Bay 31	39.610	6	3.095	6	5.711	6	8.327
Bay 33	33.478	4	3.095	6	5.711	6	8.327

TCG for rows

Row	01	03	05	02	04	06
TCG	1.310	3.930	6.550	-1.310	-3.930	-6.550

Gesamt: 70 TEU LCG: 43.333 m; VCG: 5.786 m; TCG: 0.000 m

sum TEU in hold: 204

On forecastle

Position	LCG	Tier 84 Anz	Tier 84 VCG	Tier 86 Anz	Tier 86 VCG	Tier 88 Anz	Tier 88 VCG
Bay 01	120.880	4	16.485	4	19.102	4	21.718

TCG for rows

Row	01	02	03	04
TCG	1.313	-1.313	3.938	-3.938

Gesamt: 12 TEU LCG: 120.88 m; VCG: 19.102 m; TCG: 0.000 m

Over hold 1

Position	LCG	Tier 84 Anz	Tier 84 VCG	Tier 86 Anz	Tier 86 VCG	Tier 88 Anz	Tier 88 VCG	Tier 90 Anz	Tier 90 VCG
Bay 03	112.567	6	15.607	6	18.224	6	20.840	6	23.456
Bay 05	106.455	6	15.607	6	18.224	6	20.840	6	23.456

TCG for rows

Row	01	02	03	04	05	06
TCG	1.313	-1.313	3.938	-3.938	6.562	-6.562

Position	LCG	Tier 84 Anz	Tier 84 VCG	Tier 86 Anz	Tier 86 VCG	Tier 88 Anz	Tier 88 VCG	Tier 90 Anz	Tier 90 VCG
Bay 07	99.598	7	15.607	7	18.224	7	20.840	7	23.456
Bay 09	93.466	7	15.607	7	18.224	7	20.840	7	23.456

TCG for rows

Row	00	01	02	03	04	05	06
TCG	0.000	2.625	-2.625	5.250	-5.250	7.875	-7.875

Gesamt: 104 TEU LCG: 102.527 m; VCG: 19.532 m; TCG: 0.000 m

Between hold 1 and hold 2

Position	LCG	Tier 84 Anz	Tier 84 VCG	Tier 86 Anz	Tier 86 VCG	Tier 88 Anz	Tier 88 VCG	Tier 90 Anz	Tier 90 VCG
Bay 11	87.928	2	15.607	2	18.224	2	20.840	2	23.456

TCG for rows

Row	01	02
TCG	3.086	-3.086

Gesamt: 8 TEU; LCG: 87.928 m; VCG: 19.532 m; TCG: 0.000 m

Over hold 2

Position	LCG	Tier 82 Anz	Tier 82 VCG	Tier 84 Anz	Tier 84 VCG	Tier 86 Anz	Tier 86 VCG	Tier 88 Anz	Tier 88 VCG	Tier 90 Anz	Tier 90 VCG
Bay 13	82.798	7	12.798	7	15.414	7	18.030	7	20.646	7	23.262
Bay 15	76.666	7	12.798	7	15.414	7	18.030	7	20.646	7	23.262
Bay 19	69.285	7	12.798	7	15.414	7	18.030	7	20.646	7	23.262
Bay 21	63.153	7	12.798	7	15.414	7	18.030	7	20.646	7	23.262

TCG for rows

Row	00	01	02	03	04	05	06
TCG	0.440	3.065	-3.065	5.690	-5.690	8.315	-8.315

Gesamt: 140 TEU LCG: 72.978 m; VCG: 18.030 m; TCG: 0.063 m

Between hold 2 and hold 3

Position	LCG	Tier 82 Anz	Tier 82 VCG	Tier 84 Anz	Tier 84 VCG	Tier 86 Anz	Tier 86 VCG	Tier 88 Anz	Tier 88 VCG	Tier 90 Anz	Tier 90 VCG
Bay 23	58.078	2	12.798	2	15.414	2	18.030	2	20.646	2	23.262

TCG for rows

Row	01	02
TCG	-3.728	2.403

Gesamt: 10 TEU; LCG: 58.078 m; VCG: 18.030 m; TCG: -0.663 m

Over hold 3

Position	LCG	Tier 82 Anz	Tier 82 VCG	Tier 84 Anz	Tier 84 VCG	Tier 86 Anz	Tier 86 VCG	Tier 88 Anz	Tier 88 VCG	Tier 90 Anz	Tier 90 VCG
Bay 25	52.948	7	12.798	7	15.414	7	18.030	7	20.646	7	23.262
Bay 27	46.816	7	12.798	7	15.414	7	18.030	7	20.646	7	23.262
Bay 31	39.435	7	12.798	7	15.414	7	18.030	7	20.646	7	23.262
Bay 33	33.303	7	12.798	7	15.414	7	18.030	7	20.646	7	23.262

TCG for rows

Row	00	01	02	03	04	05	06
TCG	0.440	3.065	-3.065	5.690	-5.690	8.315	-8.315

Gesamt: 140 TEU LCG: 43.126 m; VCG: 18.030 m; TCG: 0.063 m

On deck in front of deckhouse

Position	LCG	Tier 82 Anz	Tier 82 VCG	Tier 84 Anz	Tier 84 VCG	Tier 86 Anz	Tier 86 VCG	Tier 88 Anz	Tier 88 VCG	Tier 90 Anz	Tier 90 VCG
Bay 35	23.411	5	10.888	7	13.504	7	16.120	7	18.736	7	21.352
Bay 37	17.279	5	10.888	7	13.504	7	16.120	7	18.736	7	21.352

Position	LCG	Tier 92 Anz	Tier 92 VCG	Tier 94 Anz	Tier 94 VCG
Bay 35	23.411	7	23.891	2	26.354
Bay 37	17.279	7	23.891		26.354

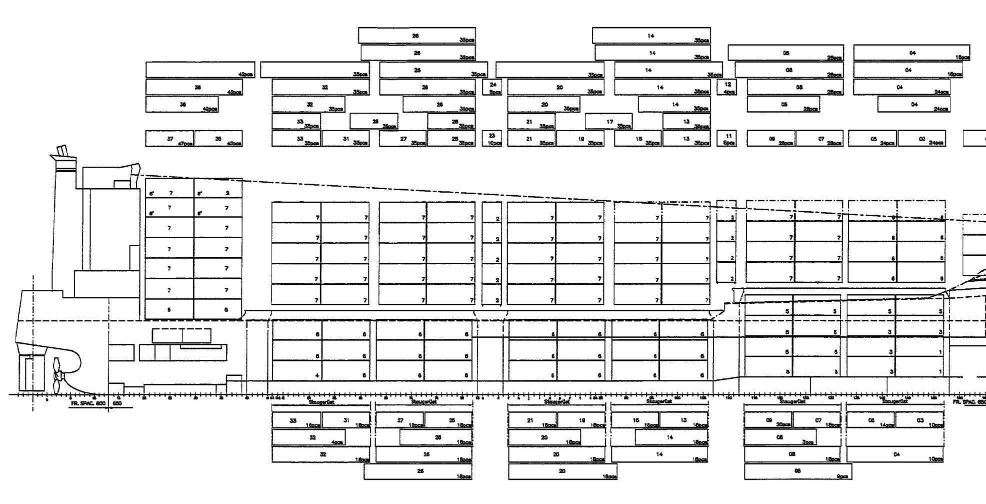
Tier94:row 01/02

TCG for rows

Row	00	01	02	03	04	05	06
TCG	0.000	2.625	-2.625	5.250	-5.250	7.875	-7.875

Gesamt: 88 TEU LCG: 20.173 m; VCG: 18.612 m; TCG: 0.000 m

sum TEU on deck: 503
sum TEU on ship: 707



Pcs. on deck/ hatch covers		Pcs. on transvers
49'Cont.	70	
48'Cont.	114	
45'Cont.	226	
40'Cont.	234	9 pcs
30'Cont.	234	
20'Cont. Var. 2	210	
20'Cont.	485	18 pcs

Pcs. in holds	
20'Cont.	204
30'Cont.	61
40'Cont.	98
45'Cont.	45

III/5

WEIGHT OF LIGHT SHIP 3658 t
DISPLACEMENT 7.357m a.BL 12153 t
DEADWEIGHT 7.357 m 8495 t

	GT	NT
LONDON RULES	6454	3218
SUEZ	6514.41	5160.38
PANAMA		5962

PERMISSIBLE LOAD OF DECKS AND HATCH COVERS

POSITION	INNER BOTTOM LOAD t/m2	CONTAINER STACK LOAD 20' t	30' t	40' t	45' t
MAIN DECK FR.20-41	–	96	128	128	128
HATCHES	–	45	70	70	70
FORECASTLE DECK	–	38.5*	–	–	–
INNER BOTTOM HOLDS 2/3	12	72	102	102	102
INNER BOTTOM HOLD 1	12	96	136	136	136

*) Twistlocks only

CLASS: SHIP GL ✠ 100 A5 E3 CONTAINER SHIP
SOLAS II-2, REG.19
ENG ✠ MC E3 AUT

MAIN DIMENSIONS

LENGT OVERALL ABT. 133,60 M
LENGTH BETW.PP. 126,80 M
BREADTH MOULDED ABT. 19,40 M
DEPTH MAINDECK ABT. 9,45 M
DRAUGHT 7,357 M
HULL-NUMBER: 227; "HERM J"
IMO-NO: 9328651

DANGEROUS GOODS:
Hold 2 is designed for the transport of dangerous goods according to SOLAS regulation 54.3 (packed solid goods), class 1 to 6,and 8, except goods according to regulation 54.2 (solid dangerous goods in bulk).

Abweichungen für Maße ohne Toleranzangabe	Auftraggeber	Halbzeug/Werkstoff	Exemplar
DIN ISO 2768	Ausgearb. im Auftrag RWB: PEENE-WERFT GmbH Wolgast	Maßstab	Masse
	Datum / Name: Bearb. 19.05.05 Zi.; Gepr.; Norm; Abt. TK Tel. 635	Typenbezeichnung und Bau-Nr.: 700 TEU-Container Ship; 227	
	DETLEF HEGEMANN ROLANDWERFT GMBH & Co KG	Benennung: Capacity plan	
Zust. Änderung Datum Name		Zeichnungs-Nr.: 199-0220.99.03.60.00	Blatt 1 / 1 Bl.
		Ers.f.:	Ers.d.: