

SCALE:-  $\frac{1}{16}'' = 1 \text{ FOOT}$

TONNAGE

CARGO TANK CAPACITIES.

COMPARTMENT	FRS.	NETT. VOLUME CUBIC FEET.		98% FULL		100% FULL		98% FULL		V.C. BASE FEET	L.C. FROM BASE FEET	L.C. FROM FT.
		100% FULL	98% FULL	WALLS 26 FT. FROM	OIL PUMP 40 FT. FROM	SPIRIT 50 FT. FROM	WATER 15 FT. FROM	V.C. BASE FEET	L.C. FROM BASE FEET			
N#1 MAIN TANKS (F&S)	12-25	43,524	42,394	16,31	1060	848	12,36	17-67	—	145-27	—	—
N#2	49-12	45,256	44,322	—	1108	886	12,56	16-42	—	120-54	—	—
N#3	66-69	44,748	43,900	16,88	1098	878	12,80	15-64	—	95-83	—	—
N#4	63-66	43,661	42,788	—	1070	856	12,47	15-22	—	70-98	—	—
N#5	60-63	43,281	42,415	16,31	1060	848	12,37	14-95	—	46-12	—	—
N#6	57-60	42,977	42,117	—	1053	842	12,28	14-88	—	21-28	—	—
N#7	54-57	42,843	41,986	16,15	1050	840	12,24	14-90	3-55	—	—	—
N#8	49-52	43,081	42,219	16,24	1055	844	12,31	14-90	4-39	—	—	—
N#9	46-49	43,015	42,155	—	1054	843	12,29	15-07	66-20	—	—	—
N#10	43-46	42,930	41,984	16,95	1057	830	12,09	15-27	78-93	—	—	—
TOTAL MAIN TANKS		434,645	425,780	9784	63,645	8,515	12,413	—	—	30-60	—	—
N#1 SUMMER TANKS (F&S)	72-75	44,552	—	—	109	87	17	30-60	—	144-78	—	—
N#2	66-69	10,565	9,852	—	246	197	28	28-76	—	108-16	—	—
N#3	60-66	9,418	9,230	—	231	185	26	27-41	—	91-20	—	—
N#4	60-66	8,786	8,610	—	215	172	25	27-18	—	89-03	—	—
N#5	49-54	7,166	7022	—	176	140	20	27-25	56-14	—	—	—
N#6	43-49	9,988	9,211	—	230	184	26	28-48	80-87	—	—	—
TOTAL SUMMER TANKS		49,274	48,288	—	1207	965	1408	28-46	—	27-36	—	—
GRAND TOTAL		483,743	474,068	9784	11,852	9400	13,821	16-95	—	33-66	—	—

COMPARTMENT		F80	100% FULL	75% FULL	TONS OF WATER
FORE DEEP TANK (P)	76-90	106.74	104.61	261.53	
" "	(S)		9.763	9.568	239.20
CROSS BUNKER (P)	40-42	7928	7769	194.21	
" "	(S)		7928	7769	194.21
DOUBLE BOTTOM TANK (P)	22-40	2622	2570	64.22	
" "	(S)		2622	2570	64.22
SETTLING TANK (P) INBOARD	31-40	565	554	13.81	
" "	(S)		565	554	13.81
" " (P) OUTBOARD		509	499	12.41	
" "	(S)		509	499	12.41
GRAND TOTAL :-		456.85	428.13	1070.30	
LUB. OIL DRAIN TANK (L)	82-28	2.11	2.07	5.18	

COMPARTMENT	FRS.	100% FULL	
		CUBIC FEET	TONS @ 36 C. FT.
DOUBLE BOTTOM TANK.	12-21	1240	3444.44
TWEEN DECK TANK.	0-9	1430	3478
TOTAL FEED WATER.		2672	74.22
TWEEN DECK TANK (P)	0-9	174	47.69
" " (S)	0-9	117	47.69
AFTER PEAK	0-9	2870	74.72
FORE PEAK	40-5	4864	135.11
TOTAL DOMESTIC WATER.		11168	310.21

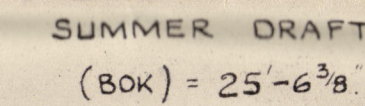
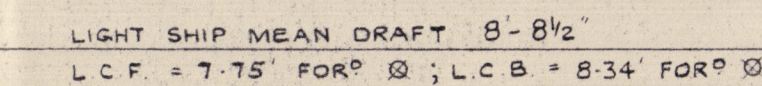
COMPARTMENT		FRS.	100% FULL CUBIC FEET	TONS @ 35C. FT.
FORE DEEP TANK	(P)	76-90	106.74	304.97
" " "	(S)		9.763	278.94
DOUBLE BOTTOM TANK	(P)	22-40	26.22	74.91
" " "	(S)		26.22	74.91
FORWARD COFFERDAM		75-76	54.57	155.91
AFTER		42-43	54.14	154.6
FORE PEAK		90-92	48.64	138.97
AFTER		0-9	28.70	82.06
TOTAL WATER BALLAST			424.286	1265.33

COMPARTMENT	POSITION	VOLUME IN CUBIC FEET	
		GRAIN	SALE
FORE HND	76-90	2130	14830
FORECASTLE SPACE	84-FE	1820	6740
FORE PEAK STORE	2 <sup>ND</sup> DK	3465	2320
GENERAL "	BRIDGE	750	645
BONDED "	"	520	490
POTATO "	"	1210	950
STEWARDS STORE	BRIDGE	1620	1391
DECK "	"	1190	925
WINEN LOCKER	"	635	570
BRIDGE SPACE	"	7581	6726
GALLEY STORE	WIDENFT	2270	1840
AFT PEAK	2 <sup>ND</sup> DK	2210	1815
GRAND TOTAL		50619	44492
GALLEY COAL BUNKER	E-A-E	310	-

COMPARTMENT	VOLUME IN CUBIC FEET	
	GROSS	NETT
MEAT ROOM.	786	670
VEGETABLE ROOM.	488	592
HANDING ROOM.	438	426
TOTAL :-	1712	1488

POSITION	GALLONS	TONS @ 36 C FT.	TONS @ 35 C FT.
FW TANK ON WHEELHOUSE TOP	250	1-11	—
S.W. " " " " " "	250	—	1-14
FW " " CASING TOP	250	1-11	—
S.W. " " " " " "	350	—	1-60
FW " " BOAT CK AFT	150	.67	—
TOTAL ..	—	2.89	2.74

CARGO SPACES & STORES - GRAIN CAPACITY IS  
TAKEN TO INSIDE OF SHELL FROM TOP OF STEEL  
DECK & TO UNDERSIDE OF DECK.  
BALE CAPACITY IS TAKEN TO FACE OF FRAMES  
FROM TOP OF DECK GRATING IF ANY & TO  
UNDERSIDE OF BEAMS.



COMPARTMENT	ITEM	TONS	CHANGE OF TRIM.	EFFECT ON DRAFT
CARGO TANKS :-				
Nº 1 CARGO TANKS (P. & S.)	DR. CARGO	500	51.34' F	16 3/4" + 34 3/4"
Nº 2	" " " " " "	"	42.36' F	- 12 1/2" + 30 3/4"
Nº 3	" " " " " "	"	33.38' F	- 7 1/2" + 25 3/4"
Nº 4	" " " " " "	"	24.31' F	- 27 0" + 21 1/2"
Nº 5	" " " " " "	"	15.26' F	- 8 1/4" + 17 1/2"
Nº 6	" " " " " "	"	6.22' F	- 3 1/2" + 9 1/2"
Nº 7	" " " " " "	"	- 83 A	+ 9 3/4" + 9 1/2"
Nº 8	" " " " " "	"	17.31' A	+ 10 3/4" + 1 1/2"
Nº 9	" " " " " "	"	26.34' A	+ 23 - 3 3/4"
Nº 10	" " " " " "	"	35.34' A	+ 27 1/2" - 7 1/2"
Nº 1 SUMMER TANKS (P. & S.)	"	200	51.16' F	- 22 1/4" + 22 3/4"
Nº 2	" " " " " "	"	37.83' F	- 15 1/2" + 28 1/2"
Nº 3	" " " " " "	"	20.02' F	- 6 3/4" + 13 3/4"
Nº 4	" " " " " "	"	1.73' F	+ 2 3/4" + 4 1/4"
Nº 5	" " " " " "	"	14.67' A	+ 11 3/4" - 2 1/4"
Nº 6	" " " " " "	"	30.95' A	+ 19 3/4" - 11 3/4"
O.F. F.W. & W.B. TANKS:-				
FORE PEAK	WATER BALLAST	138.97	19.99' F	- 7 1/2" + 12 1/2"
FORE DEEP TANK	(P) OIL FUEL	261.53	32.59' F	- 11 1/2" + 21"
	(S)	239.20	29.99' F	- 10 1/4" + 19 1/2"
COFFERDAM	(FORD) WATER BALLAST	155.91	17.78' F	- 6 1/2" + 11 1/2"
	(AFTER)	154.69	12.52' A	+ 9 3/4" - 3 3/4"
CROSS BUNKER	(P. & S.) OIL FUEL	388.46	33.26' A	+ 24 3/4" - 8 3/4"
SETTLING TANKS. (ONE)	" " " "	13.85	1.32' A	+ 1 1/2" - 3 1/2"
DOUBLE BOTTOM TANKS (P. & S.)	" " " "	128.50	18.05' A	+ 9 3/4" - 3 1/2"
	FEED TANK	34.44	4.50' A	+ 3" - 1 1/2"
TWEEN D.W. FEED TANK	" " " "	39.78	6.06' A	+ 3 1/2" - 2 1/4"
" " F.W. TANKS (P. & S.)	FRESH W.	95.38	14.47' A	+ 9 1/4" - 5 1/4"
AFTER PEAK	WATER BALLAST	83.00	12.49' A	+ 7 3/4" - 4 3/4"
CARGO :-				
FORE HOLD	CARGO	100	12.54' F	- 4 1/2" + 1 8 1/2"

THE ABOVE TRIMS ARE CALCULATED ON 21'-0" MEAN DRAFT  
 TONS PER INCH = 524                      MOMENT TO CHANGE TRIM 1" = 1374  
 CENTRE OF FLOTATION = 4.18 FT. FORD. OF  $\otimes$   
 WEIGHTS ADDED :-

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CARGO TANKS	250 TONS IN EACH P. & S. TANK
SUMMER "	100 " " " "
OIL FUEL "	98% FULL @ 40 C.F./TON
FRESH WATER "	100% " @ 36 "
WATER BALLAST	100% " @ 35 "
CARGO SPACES	100 TONS.

DEADWEIGHT SCALE.					
FREBOARD IN FEET	DRAFT IN FEET	DEADWEIGHT IN TONS	DISPLACEM <sup>t</sup> IN TONS	TONS PER INCH	MOMENT CHANGE TRIM 1"
5	26	11000			
			15000		
6	25	10350 10000		54	
7	24		14000		1500
8	23	9000			
			13000	53	
9	22	8000			1400
10	21		12000		
11	20	7000		52	
			11000		
12	19	6000			
			10000		1300
13	18				
		5000		51	
14	17				
15	16		9000		
16	15	4000			
			8000		
17	14				
		3000		50	
18	13		7000		1200
19	12	2000			
20	11		6000		
				49	
21	10	1000			
			5000		
22	9			48	1100
		0			
23	8				



Ship No. 700

*21*

R. & W. HAWTHORN, LESLIE  
& CO. LTD.

Capacity Plan.

'ATHELBEACH' ★  
SHIP No. 700  
NEWCASTLE-on-TYNE  
No. 107600.

RECORDS DEPT..  
LONDON

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Lloyd's Register  
Foundation

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