

-5 DEC 1932

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, *Sailing Ship, Tanker*
having **SHELTER DECK**

(Type of Superstructures.)

Ship's Name "KEDOE"	Nationality and Port of Registry DUTCH ROTTERDAM	Official Number 3714	Gross Tonnage 8994	Date of Build 1921-11
-------------------------------	--	--------------------------------	------------------------------	---------------------------------

Moulded Dimensions: Length **367' 11.91"** Breadth **57' 25" 13.62"** Depth **25' 5" 7.772"**
Moulded displacement at moulded draught = 85 per cent. of moulded depth
Coefficient of fineness for use with Tables **779**

Port of Survey **Batavia**
Date of Survey **11 November 1932**
Name of Surveyor **Boley**
Particulars of Classification **+100 Ft. J.S. Rot. No. 229**
Shelter deck with freeboard.

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth 7.772	(a) Where D is greater than Table depth (D - Table depth) R = 8.33 (7.784 - 7.461) 28.26 = + 76 1/2	Moulded Breadth (B) 15.62
Stringer plate012	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓	Standard Round of Beam = $\frac{B \times R}{50} = \frac{312}{50} = 6.24$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ 1.52	If restricted by superstructures ✓	Ship's Round of Beam = 324 1/2
Depth for Freeboard (D) = 7.784		Difference 12 1/2
		Restricted to ✓
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{12}{4} \times .007 = .14$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	6.38	6.38	2.59	✓	26.38
" overhang53	.26	"	✓	.26
R.Q.D. enclosed					
" overhang					
Bridge enclosed	103.62	103.62	2.59	✓	103.62
" overhang aft13	.10	"	✓	.10
" overhang forward					
Forecastle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft	1.25	.77		✓	.77
" " forward					
Total	111.91	111.13			111.13

Standard Height of Superstructure 2189	
" " R.Q.D. 1011	
Deduction for complete superstructure 1011	
Percentage covered $\frac{S}{L} = 100\%$	
" " $\frac{S_1}{L} = 99.30\%$	
" " $\frac{E}{L} = 99.30\%$	
Percentage from Table, Line A. 99.14%	
(corrected for absence of forecastle (if required))	
Percentage from Table, Line B.	
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction = $1011 \times .9914 = - 1002 1/2$	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	1186	1		1186	37	1156	1558	1	1558
1/2 L from A.P.	527	4		2108	15	431	693	4	2772
3/4 L "	132	2		264	1 1/2	108	171	2	342
Amidships		4			0			4	
3/4 L from F.P.	264	2		528	14	286	322	2	644
1/2 L "	1054	4		4216	45	1144	1303	4	5212
F.P.	2372	1		2372	92	2527	2929	1	2929
Total	10674			10674					13457

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{2783}{18} \left(.75 - .50 \right) = - 39 1/2$$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **7.784**
Summer freeboard = **7.10**
Moulded draught (d) = **7.074**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{48}$ inches = **147 1/2**
Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 10007$ Tons
Tons per inch immersion at summer load water line
 $T = 15.04$ Tons/inch
Deduction = $\frac{\Delta}{40T}$ inches = **166 1/2**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	76 1/2	-
Deduction for superstructures	-	1002
Sheer correction	-	39
Round of Beam correction	-	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	76 1/2	1041 1/2 - 965

Summer Freeboard = **7.12 7/8**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	32 1/2	Tropical Fresh Water Freeboard	39 1/2
Fresh Water Line " "	17 1/2	Fresh Water " "	54 1/2
Tropical Line " "	15 1/2	Tropical " "	56 1/2
Winter Line below " "	15 1/2	Winter " "	86 1/2
Winter North Atlantic Line " "	✓	Winter North Atlantic " "	✓

008314-008321-0152

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
Description of Hatchway			No 1	No 2	No 2 R	No 3	No 4				
Dimensions of Hatchway			25' x 16'	29' 2" x 16'	25' x 16'	25' x 16'	25' x 16'				
COAMINGS	{	Height above Deck	30"	30"	30"	30"	30"	Machinery bearing in shelter deck space.			
		Thickness {	Sides	1/2"	1/2"	1/2"	1/2"				1/2"
			Ends	1/2"	1/2"	1/2"	1/2"				1/2"
		Stiffeners	9" x 3" x 3/8" B.A.	10"	10"	10"	10"				10"
		Brackets, Stays	7" Ball stays	do	do	do	do				do
HATCH BEAMS	{	Number	5	6	5	5	5	No openings - 15" x 5/8" coamings 5/8" Plating Stiffeners 3 1/2" x 3" x 3/8" angles - Spacing 2'-0"			
		Spacing	4'-2"	4'-2"	4'-2"	4'-2"	4'-2"				
		Scantling and Sketch	7" x 3 1/2" x 3 1/2" ANGLES	do	do	do	do				
			15" x 3/8"	do	do	do	do				
		Bearing Surface	3 1/2"	do	do	do	do				
FORE AND AFTERS	{	Number						Beams, hatchways, & cleats as in shelter deck given opposite.			
		Spacing									
		Unsupported Lengths									
		Scantling* and Sketch									
		Bearing Surface									
HATCH COVERS	{	Material	Pine					Freeboard deck hatch beam sockets (AS APPROVED LONDON TABLE 12-9-32)			
		Thickness	3"	do	do	do	do				
		How fitted	F&A								
		Bearing Surface	3"								
Spacing of Cleats			22"	22"	22"	22"	22"	Gally Bunker Hatch - 2'-6" x 1'-6" - 18" x 3/8" coaming 3" hatchways cleats 18" 3 tarpaulins 3" bearing surface.			
Number of Tarpaulins			3 for each hatch on superstructure deck								
			3 for each hatch on freeboard deck								
*Are wood fore and afters steel shod at all bearing surfaces? Are battens and wedges efficient and in good condition? Are tarpaulins in good condition and in accordance with rule requirements? Are lashings provided in accordance with rule requirements?											
Yes Yes Yes Yes											

Particulars of fiddle, funnel and ventilator coamings:— No funnel — Diesel engine exhaust pipe & silencer.

6-24" Dia ventilators to Engine Room

Coamings 8'-6" high

Steel skylights — hand operated.

Particulars of Flush Bunker Scuttles:—

—NIL—

Particulars of Companionways:—

One companionway inside steel deck house aft. Steel door 5'-6" x 2'-6" secured by handles & locks.

One booby hatch companionway to crew's quarters forward

Steel booby hatch and door 5'-6" x 2'-6" secured by locks & handles.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

9'-15" & 24" dia ventilators — 3'-0" coamings on superstructure deck — to holds & tween decks

Fitted with wood plugs and canvas covers.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

3" air pipes — Wrot Iron swan neck — 3'-0" high fitted in way of bulwarks & guard rails. Air pipes to oil tanks closed with fireproof gauge. Others fitted with wood plugs.

Particulars of Gangway Cargo and Coaling Ports:—

—NIL—

Particulars of Scuppers and Sanitary Discharge Pipes:—

No Scupper Pipes

Redoe.

2 1/2" dia sanitary discharge pipes — all in engine room — fitted with storm valves.

Particulars of Side Scuttles:—

10" dia side scuttles in crew accommodation — fitted with hinged C.I. storm valves.

Particulars of Guard Rails:—

Three bar guard rails 3'-6" high on fore & after decks. Bulwarks fitted in way of midship accommodation.

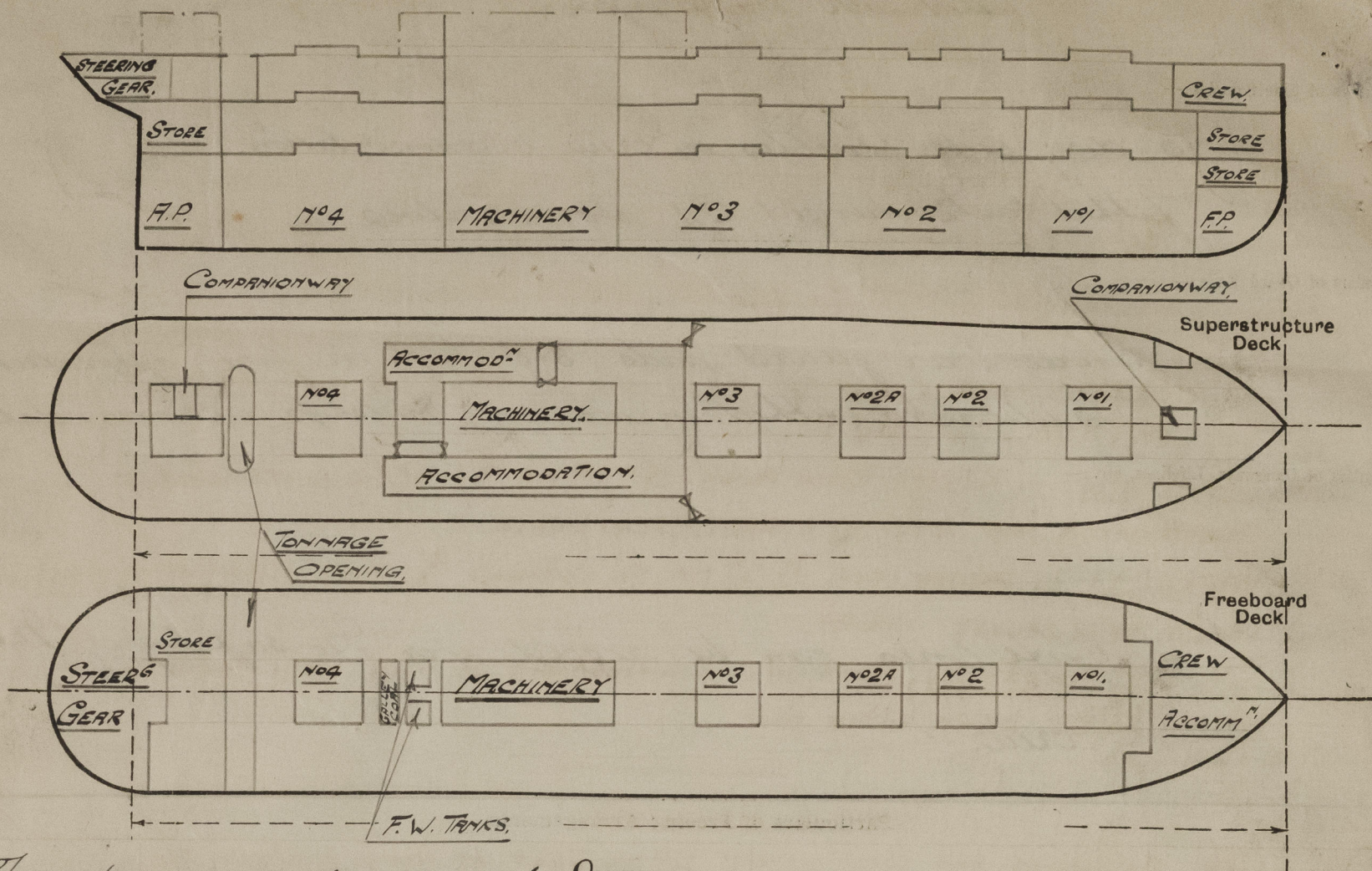
Particulars of Gangways, Lifelines, etc.:—

Life lines can be rigged for the safety of the crew.

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well						
Forward Well						
State position of each freeing port (F. and A. position and height above deck edge) State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Additional area where sheer is less than standard.						
Bulwarks in way of guard rails fore & aft decks midships accom only Height 3'-6" Freeing ports in kennage space 2'-6" x 1'-5"						

Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
AFT Bulkhead in Tonnage Space	3 1/2" x 3 1/2" x 3/8"	5/16"	5' x 3' x 3/8"	2'-6"		NIL		8'-6"
Raised Quarter Deck Bulkhead								
FOR Bulkhead in Tonnage Space	3 1/2" x 3 1/2" x 3/8"	5/16"	5' x 3' x 3/8"	2'-6"		8'-6" x 4'-6"		8'-6"
Bridge, Forward Bulkhead								
Forecastle Bulkhead (AFT 8' 4" 0" 0")	3 1/2" x 3 1/2" x 3/8"	3/8"	4 1/2" x 3 1/2" x 3/8"	2'-3"		NIL		8'-6"
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks	15" x 5/16"	5/16"	3 1/2" x 3' x 3/8"	2'-0"		5'-0" x 2'-6"	15"	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								
Particulars of Closing Appliances (state if capable of being manipulated from both sides).								
AFT Bulkhead in Tonnage Space	No openings							
Raised Quarter Deck Bulkhead								
FOR Bulkhead in Tonnage Space	3" Stormboards — full height. full W.							
Bridge, Forward Bulkhead								
Forecastle Bulkhead	No openings.							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	Machinery casing protected by accommodation. One steel & one 2" oak wood door inside accommodation at all ways.							
Deckhouses on Flush Deck Ships	Secured by handles & locks capable of being operated from both sides.							

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



Freeboard deck is unsheathed.

Tonnage opening 4'-1" x 21'-0" - 3" hatch boards, 3 tarpaulins secured by locking bars. One freeing port each side 2'-6" x 1'-3" fitted with bar & flap 10" x 4" B.A. coaming.

State any special features in the construction of the ship:—

Particulars taken when vessel was in dry dock for condition survey.

Builder's name and yard number

Names of sister ships

Owners

Rotterdamische Lloyd.

Fee

£ Dupes 535/-

Received by me



© 2020

Lloyd's Register Foundation