

28/1/48.

THE BRITISH CORPORATION REGISTER OF
SHIPPING AND AIRCRAFT

SURVEY FOR FREEBOARD

STEAMER, ~~TANKER~~, SAILER: *ESTKON*WITH ~~WITHOUT~~ TIMBER DECK CARGONationality *BRITISH*Builders' Name and No. of Ship *WERFT NOBISKRUG OF
RENSBURG.*Port of Registry *HULL*Official Number *180610*Owners *KONNEL STEAMSHIP CO. LTD.*Gross Tonnage *1201*Date of Build *1922*Port and Date of survey *BARRY 8/1948.*Name of Surveyor *George Old*Particulars of Classification *B.S.*Names of Sister Ships *—*Type of Superstructures *Combined Bridge and Poop and F'ble.*

Trade of Ship

Service Endorsement if any

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

TROPICAL FRESH WATER LINE above centre of disc

7 1/2"

Corresponding Freeboard

*0'-8 1/2"**0'-1"*

FRESH WATER LINE

4"

" "

0'-4 1/2"

TROPICAL LINE

3 1/2"

" "

0'-5"

WINTER LINE

below " "

3 1/2"

" "

1'-0"

WINTER NORTH ATLANTIC LINE

" "

5 1/2"

" "

*1'-2"*SUMMER TIMBER FREEBOARD recommended amidships from top of deck line *(2 1/2")*

TROPICAL FRESH WATER Timber line above L.S.

7 1/2"

Corresponding Freeboard

*0'-6"**-0'-1 1/2"*

FRESH WATER

" " " "

4"

" "

0'-2"

TROPICAL

" " " "

3 1/2"

" "

0'-2 1/2"

WINTER

" " below "

5"

" "

0'-11"

WINTER NORTH ATLANTIC

" " " "

8"

" "

1'-2"

Number of years recommended for load line certificate

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Chief Surveyor

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the *24 August 1948*

Secretary

002830-002831-0116 1/9

COMPUTATION OF FREEBOARD

Length on summer load line $250'-0"$ Moulded Breadth $37'-6"$ Moulded Depth $15'-1"$ Depth of Keel $.57'$ (ship)
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 2570 Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .748$
 Displacement and tons per inch immersion in salt water at summer load line 2890 @ 19 T.P.I.
 Moulded depth $15'-1"$ 15.083 Deduction for Fresh Water $\frac{\Delta}{40T} = 4"$ inches
 Stringer Plate $\frac{1}{4}"$ $.021$ Round of Beam Correction
 Sheathing on exposed deck T $(\frac{L-S}{L})$ Ships Round of Beam 9.50 inches
 Rise of floor (in saliers) $-$ Standard Round of Beam $B \times 12$ 9.00
 Depth for Freeboard (D) 15.104 Difference $.50$
 Table Depth $\frac{L}{130} \times 16.667$ Restricted to
 Depth Correction $\frac{L}{130} \times 1.563 = 3.01$ off Correction $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = .125 \times .1197$
 restricted by superstructures $-$ $.015$ off $.015$ off

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	$46\frac{3}{4}$	35	46.75	1	46.75
$\frac{1}{2}$ L from A.P.	$\frac{1}{2}$	15.57	$.50$	4	2.00
$\frac{1}{2}$ L from A.P.	$-\frac{1}{2}$	3.85	$-.50$	2	-1.00
Amidships	0	0	0	4	
$\frac{1}{2}$ L from F.P.	$\frac{3}{4}$	7.7	7.7	2	15.40
$\frac{1}{2}$ L from F.P.	$38\frac{3}{4}$	31.14	31.14	4	124.56
F.P.	$96\frac{1}{2}$	70	70	1	70.00
				18	257.71
Effective Mean Sheer					14.32
Standard " " .05L + 5					17.50
Difference					3.18

Standard Height of Superstructure $6'-0"$
 " " R.Q.D. $-$
 Percentage covered S/L = 88.46%
 " " E/L = 88.03%
 " from Table line A, B, (corrected for absence of fore-castle if required) 85.26%
 Percentage from Table by interpolation for Bridge less than .2L if required =
 Deduction = $31 \times .8526 = 26.43$
 Percentage from Table for Tankers (or Timber ships) 92.52%
 Deduction = $31 \times .9252 = 28.68$

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Mean Actual sheer aft = $Less\ Than\ 50\%$
 " Standard " "
 Mean Actual sheer forward = $More\ Than\ 1$
 " Standard " "
 Length of enclosed superstructure forward of amidships = \checkmark
 Length of Ship
 Length of enclosed superstructure aft of amidships = \checkmark
 Length of Ship
 Sheer Correction = Difference $\times (75 - \frac{S}{2L}) = 3.18 \times .3077$
 = $.977$ ON.
 If limited on account of midship superstructure = \checkmark
 " to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. = \checkmark

TABULAR FREEBOARD corrected for flush deck if required = 32.3
 Correction for co-efficient = $1.428/1.36 = 33.92$ DRAUGHTS AND SEASONAL CORRECTIONS

	+	-
Depth correction	-	-
Deduction for superstructures	-	26.43
Sheer correction	$.98$	-
Round of Beam correction	-	$.02$
Correction for thickness of deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	$.98$	26.45

	Steamer	Timber
Depth to Freeboard Deck in feet	15.104	15.104
Summer Freeboard in feet	$.708$	$.500$
Moulded Draught (d)	14.396	14.604 (d1)
Addition for Keel	$.048$	$.048$
Extreme draught	14.444	14.652

Deduction for Tropical and addition for Winter freeboard $d/4 = 3\frac{1}{2}$ ins.
 Addition for Winter North Atlantic (if required) = $5\frac{1}{2}$ ins.
 Deduction for Tropical Timber Freeboard $d/4 = 3\frac{1}{2}$ ins.
 Addition for Winter " " $d/3 = 5$ ins.
 Summer Freeboard in inches $8\frac{1}{2}" = 8.45$
 Additional allowance for superstructures on Timber carrying ships = 2.25
 Summer Timber Freeboard in inches $6" = 6.20$
 " " N.A. Timber Freeboard (if required) = 8 ins.

Form LL 4.D.

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT SURVEY FOR FREEBOARD CONDITIONS OF ASSIGNMENT

SHIP'S NAME "ESTKON" OFFICIAL NUMBER 180610
 Nationality and Port of Registry BRITISH. HULL.

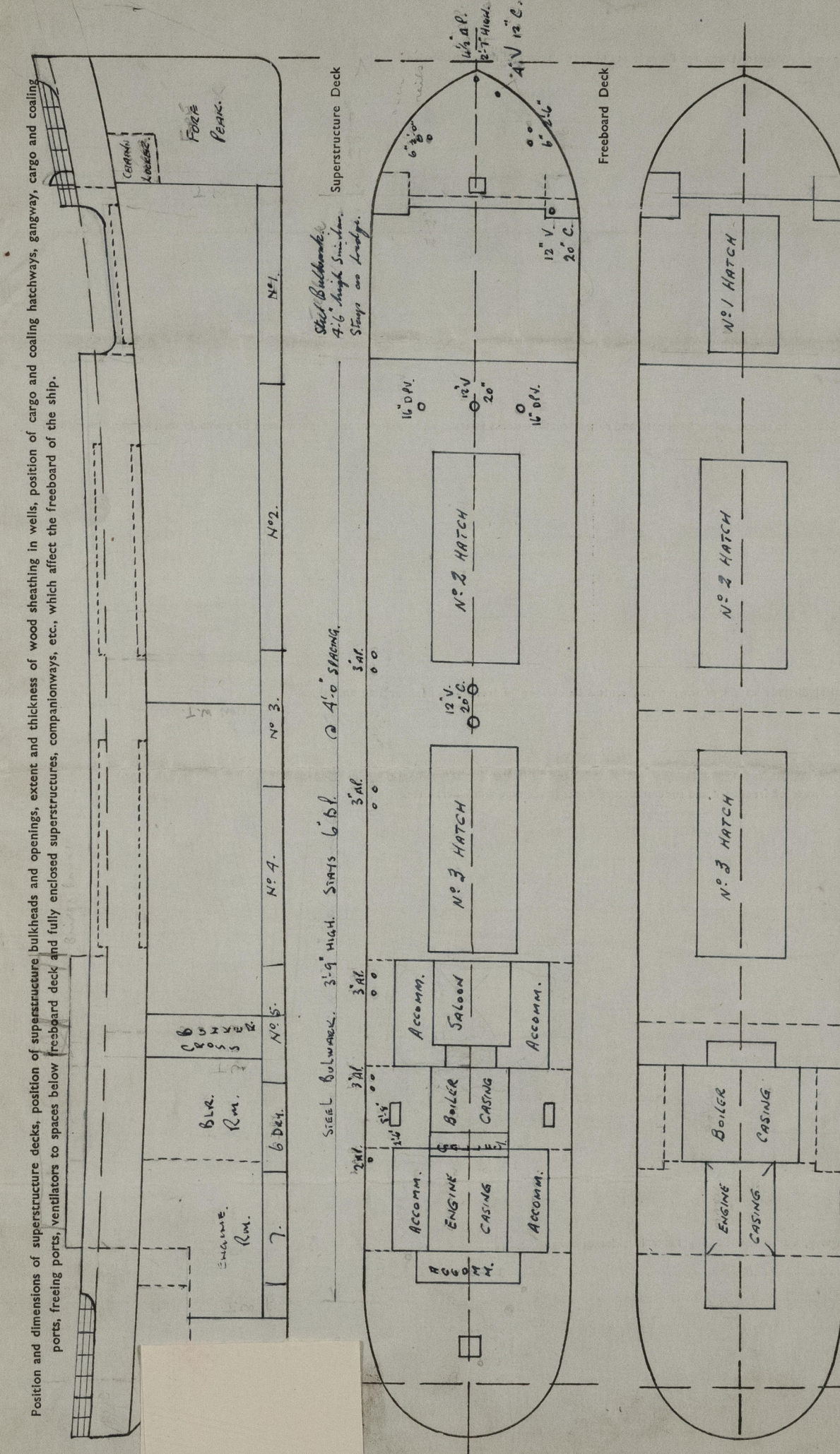
	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead								
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks								
Exposed Machinery Casings on superstructure decks								
Machinery Casings within Superstructures not fitted with Cl. 1 closing appliances								
Deckhouses on flush deck ships								

PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	
Exposed Machinery Casings on Freeboard or R.Q. decks	
Exposed Machinery Casings on superstructure decks	
Machinery Casings within superstructures not fitted with Cl. 1 Closing Appliances	
Deck houses on Flush Deck ships	

PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
Forward Well	$27'-0"$	$4'-6"$	$20\ 3'-0" \times 1'-8"$	$10\ 4\frac{1}{2}$	$9.2\ \frac{1}{2}$
State fore and aft position and height above deck to bottom of port, for each port					
Forward Well $8'-0"$ from forward end of hull and $4'-6"$ from aft end of hull to aft end of freeing, with $8"$ sills.					
State whether freeing ports are fitted with shutters, bars or rails, and give particulars					
Give particulars of freeing port area, etc., on superstructure decks					



PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECK

Number and description of Hatchway from forward	Dimensions of Hatchway				Brackets or Stays	Number	Spacing	Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Number	Spacing	Unsupported lengths	Scantling and Sketch	Bearing Surface and thickness of carriers or sockets	Material Thickness	How Fitted	Bearing Surface	Spacing of Cleats	Number of Tarpsulins	Are tarpulins in good condition	Are lashings provided in accordance with the Rules
COAMINGS																					
	Height of steel deck above	Thickness of deck	Stiffeners at 500s.																		
	ends	sides	ends																		
HATCH BEAMS																					
FORE AND AFTERS																					
HATCH COVERS																					

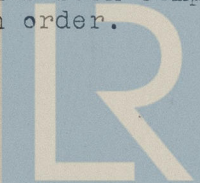
Are wood fore and alters steel shod at all bearing surfaces? \checkmark
 Are battens and wedges efficient and in good condition? \checkmark
 Are lashings provided in accordance with rule requirements? \checkmark
 Are tarpaulins in good condition and in accordance with rule requirements? \checkmark

0116 2/9

0116 3/9

0116 6/9

The Freeboard Report has been compared with the
approved plans and found in order.



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Lloyd's Register
Foundation

[Signature]
15 JUN 1950

0116 4/9

ENT.	7 HI.	3 AT.	3 AT.	3 AT.
0	0 0	0 0	0 0	0 0

Sliding arrangements:- Wood plugs & Canvas Cover.

Gangway, Cargo and Coaling Ports in sides of ship

The fittings and appliances are in accordance with the particulars shown in the form and are in good condition