

AMENDED with 1966 tabular freeboard

CI

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received
 Index No.
 Govt. Copy
 Owners C11

Ship's Name BRITISH CROWN	Official Number 184648	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage	Date of Build MAY 1952	Port of Survey LONDON HQ
Moulded Dimensions: Length 611.00' Breadth 81.00' Depth 44.49' <small>TO CENTRE OF RUBBER STOCK</small>					Date of Survey 10.6.66
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 42050 tons (excluding bossing)					Particulars of Classification + 100 A1 C.P.I.B
Coefficient of fineness for use with Tables .787					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	44.49	(a) Where D is greater than Table depth (D-Table depth) R =	11.55"	Moulded Breadth (B)	
Stringer plate	1.12"	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	
Wood Sheathing on exposed deck				Ship's Round of Beam	
$T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures		Difference	
Depth for Freeboard (D) =	44.58			Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right)$	- .08"

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	135.20	135.20	8.00'		135.20
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	60.54	59.05	7.50'		59.05
" overhang aft					
" overhang forward					
F'cle enclosed	83.08	83.08	7.50'		83.08
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	278.82	277.33			277.33

Standard Height of Superstructure **7.50'**
 " " R.Q.D.
 Deduction for complete superstructure **42.00"**
 Percentage covered $\frac{S}{L} = 45.63$
 " " $\frac{S_1}{L} = 45.39$
 " " $\frac{E}{L} =$
 Percentage from Table, **Line A TANKER 36.39**
 (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 = $42.00 \times .3639 = 15.28"$

SHEER CORRECTION.

Also for excess Rd of poop = $\frac{6}{3} \times \frac{135.2}{611} = .44"$

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	M	Product
A.P.		1				1	
$\frac{1}{4}L$ from A.P.		4				4	
$\frac{2}{4}L$ "		2				2	
Amidships	0	4	0	0	0	4	0
$\frac{2}{4}L$ from F.P.		2				2	
$\frac{1}{4}L$ "		4				4	
F.P.		1				1	
Total			639.90				183.96

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{(455.94 - 0.44)}{18} (.75 - .2282) = 12.99"$
 If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{4}$ ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **44.60** Ft.
 Summer freeboard = **9.50**
 Moulded draught (d) = **35.10**
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta =$
 Tons per inch immersion at summer load water line
 $T =$
 Deduction = $\frac{\Delta}{40 T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.787 + .68}{1.136} = \frac{1.467}{1.136}$

	+	-
Depth Correction	11.55	
Deduction for superstructures		15.28
Sheer correction	12.99	
Round of Beam correction		.08
Correction for Thickness of Deck PLATE amidships	0.21	
Other corrections, scantlings, etc.		
	24.75	15.36

 Summer Freeboard = **114.06"**

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

Tropical Fresh Water Line above Centre of Disc	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	Fresh Water	"
Tropical Line	"	Tropical	"
Winter Line below	"	Winter	"
Winter North Atlantic Line	"	Winter North Atlantic	"

