

AMENDED

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No. 43754

Govt. Copy

Owners C11

Ship's Name WEATHER OBSERVER	Official Number	Nationality and Port of Registry BRITISH	Gross Tonnage	Date of Build 12/40	Port of Survey
Moulded Dimensions: Length 190.0' Breadth 33.0' Depth 17.5'					Date of Survey 27/10/52
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Particulars of Classification
Coefficient of fineness for use with Tables .68					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 17.50	(a) Where D is greater than Table depth (D-Table depth) R = (17.53-17.50) 1.46 = +7.10"	Moulded Breadth (B) = 33.00
Stringer plate03	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 4.86	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{33 \times 12}{50} = 7.92$
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = 8.56
Depth for Freeboard (D) = 17.53		Difference = .58
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.58}{4} \times .1052 = .0152$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
BRIDGE + F'cle enclosed	170.00	170.00	6.75	-	170.00
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	170.00	170.00			170.00

Standard Height of Superstructure 6.0'	
" " R.Q.D.	
Deduction for complete superstructure 25.00"	
Percentage covered $\frac{S}{L} =$	} 89.48
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	
Percentage from Table, Line A. + B 87.05	
(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 = 25.00 x .8705 = -21.76"	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{8}L$ from A.P.		4				4	
$\frac{2}{8}L$ "		2				2	
Amidships	0	4	0	0	0	4	0
$\frac{3}{8}L$ from F.P.		2				2	
$\frac{4}{8}L$ "		4				4	
F.P.		1				1	
Total			261.00				183.00

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{108.00}{18} \left(.75 - \frac{.4474}{2 \times 170} \right) = +1.82"$
If limited on account of midship superstructure. **3026** If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 17.53	Ft.
Summer freeboard = 3.00	
Moulded draught (d) = 14.53	
Keel allowance = .04	
Extreme draught = 14.57	

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 $\Delta =$ 1370
Tons per inch immersion at summer load water line $T =$ 11.51

Deduction = $\frac{\Delta}{40 T}$ inches**2.98 x 3"**

TABULAR FREEBOARD

Correction for coefficient **NIL**

	+	-
Depth Correction	7.10	-
Deduction for superstructures	-	21.76
Sheer correction	1.82	-
Round of Beam correction	-	.02
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc. 27.46	-	-

to an all seasons ~~But draught~~ **36.38** **21.78** **+14.60**
of **14'-7"** (actual **14.57**) Summer Freeboard = **36.00**

ALL SEASONS FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~etc.~~ Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ...	3'-0"
Fresh Water Line " " ...	2'-9"
Tropical Line " " ...	2'-9"
Winter Line below " " ...	3'-0"
Winter North Atlantic Line " " ...	3'-0"

Tropical Fresh Water Freeboard	3'-0"
Fresh Water " "	2'-9"
Tropical " "	2'-9"
Winter " "	3'-0"
Winter North Atlantic " "	3'-0"