

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.

Govt. Copy

Owners C11

Ship's Name ARGOBEC	Official Number 144491	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 4138	Date of Build 1943	Port of Survey
Moulded Dimensions: Length 416.0 Breadth 56.88 Depth 37.33					Date of Survey 12.6.56
Freeboard Length 414.35 <i>e.l. of Rudder stock</i>					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16590 tons					Particulars of Classification +100 A 1
Coefficient of fineness for use with Tables .441					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 37.33	(a) Where D is greater than Table depth (D-Table depth) R = (37.33 - 27.82) 3.00 = 28.68	Moulded Breadth (B) 56.88
Stringer plate05	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 7.52	Standard Round of Beam = $\frac{B \times 12}{50}$ = 13.65
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 14.00
Depth for Freeboard (D) = 37.38		Difference .35
		Restricted to
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right)$ = .35 = .09

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					
F'ele enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure	4.50
" " R.Q.D.	✓
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L} =$	
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	
Percentage from Table, Line A. (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 =	NIL

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	51.73	1	51.73	54.63	54.63	1	54.63
$\frac{1}{2}$ L from A.P.	23.02	4	92.08	22.38	22.38	4	89.52
$\frac{3}{4}$ L "	5.69	2	11.38	4.88	4.88	2	9.76
Amidships	0	4	0	0	0	4	0
$\frac{3}{4}$ L from F.P.	11.38	2	22.76	11.75	11.75	2	23.50
$\frac{1}{2}$ L "	46.04	4	184.16	47.13	47.13	4	188.52
F.P.	103.47	1	103.47	104.75	104.75	1	104.75
Total			465.58				470.68

Mean actual sheer aft = **> .75**
Mean standard sheer aft =

Mean actual sheer forward = **Excess**
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **FLOSH DECK**
" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{5.10}{18} \times .75 = -.21$
If limited on account of midship superstructure. **✓**

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Ft.
Depth to Freeboard Deck = **37.38**
Summer freeboard = **9.79**
Moulded draught (d) = **27.59**
Keel allowance =
Extreme draught =
Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = **6.89 = 7"**

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
= **7 1/4"**

TABULAR FREEBOARD

corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction **28.68** ✓
Deduction for superstructures ✓
Sheer correction **.21** ✓
Round of Beam correction **.09** ✓
Correction for Thickness of Deck amidships ✓
Other corrections, scantlings, etc. **.34**

+	-
28.68	
.21	
.09	
.34	
29.02	.30

Summer Freeboard = **117.60**

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

Tropical Fresh Water Line above Centre of Disc **14 1/4"**
Fresh Water Line " **7 1/4"**
Tropical Line " **7"**
Winter Line below " **7"**
Winter North Atlantic Line " **4"**

Tropical Fresh Water Freeboard **8' - 1 1/4"**
Fresh Water " **9' - 2 1/4"**
Tropical " **9' - 2 1/2"**
Winter " **10' - 4 1/2"**
Winter North Atlantic " **10' - 4 1/2"**