

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.

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Owners C11

Ship's Name OLIVEBANK	Official Number 148889	Nationality and Port of Registry BRITISH GLASGOW	Gross Tonnage 5154	Date of Build 1926-2	Port of Survey
Moulded Dimensions: Length 419.5 Breadth 53.75 Depth 29.17					Date of Survey 1st March 1954
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 12350 tons					Particulars of Classification
Coefficient of fineness for use with Tables .773					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 29.17	(a) Where D is greater than Table depth (D - Table depth) R = (29.20 - 27.96) 3 = 3.72"	Moulded Breadth (B) = 53.75
Stringer plate03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{53.75 \times 12}{50} = 12.90$
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 13.00
Depth for Freeboard (D) = 29.20		Difference = .10
		Restricted to
		Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.10}{4} \times .0056 = .0014$

DEDUCTION FOR SUPERSTRUCTURES.				
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Effective Length (E)
Poop enclosed	68.17	68.17	8.0	68.17
" overhang	1.00	.50		.50
R.Q.D. enclosed				
" overhang				
Bridge enclosed	346.08	346.08	8.0	346.08
" overhang aft21	.16		.16
" overhang forward				
F'cle enclosed				
" overhang				
Trunk aft				
" forward		1/2 DIFF	8.0	
Tonnage opening aft	4.04	2.29		2.29
" " forward				
Total	419.50	417.20		417.20

Standard Height of Superstructure	7'-6"
" " R.Q.D.	-
Deduction for complete superstructure	42.00"
Percentage covered $\frac{S}{L} =$	100.00
" " $\frac{S_1}{L} =$	99.44
" " $\frac{E}{L} =$	99.31
Percentage from Table, Line A. & B	99.31
(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 x .9931 = -41.71"	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	51.95	1		48.00	54.00	1	54.00
1/4 L from A.P.	23.12	4		19.75	24.03	4	96.12
1/2 L "	5.71	2		5.00	5.94	2	11.88
Amidships	0	4	0	0	0	4	0
3/4 L from F.P.	11.43	2		14.00	13.86	2	27.72
1/4 L "	46.24	4		56.00	56.07	4	224.28
F.P.	103.90	1		120.00	126.00	1	126.00
Total			467.57	+6.00			540.00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{72.43}{18} (.25) = -1.01"$

If limited on account of midship superstructure.

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

Actual Ht. of super. **8'-0"**
Standard " " **7'-6"**
6"

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
" " aft of " =

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck =	29.20
Summer freeboard =	3.67
Moulded draught (d) =	25.53
Keel allowance =	
Extreme draught =	
Deduction for Tropical freeboard and addition for =	
Winter freeboard = $\frac{d}{4}$ inches =	6.38 = 6 1/2"

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"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.773 + .68}{1.36} = \frac{1.453}{1.36}$

	+	-
Depth Correction	3.72	-
Deduction for superstructures	-	41.71
Sheer correction	-	1.01
Round of Beam correction	-	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-

3.72 42.72 - 39.00
Summer Freeboard = **43.96**

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

Tropical Fresh Water Line above Centre of Disc ...	13 1/2"
Fresh Water Line " " ...	7"
Tropical Line " " ...	6 1/2"
Winter Line below " " ...	6 1/2"
Winter North Atlantic Line " "

Tropical Fresh Water Freeboard	3'-8"
Fresh Water	2'-6 1/2"
Tropical	3'-1 1/2"
Winter	3'-1 1/2"
Winter North Atlantic	4'-2 1/2"